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Abbott Machine Co., Inc.: *See*—
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Abbott, Samuel L. 3,319,900.
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Abbott, Paul D. Tractor hitch selectively adjustable stabilizer. 3,310,123, 3–21–67, Cl. 172—450.

Abbott, Paul D. Cultivator harness. 3,312,290, 4–4–67, Cl. 172—451.

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Lamburn, Alan S., Abbott, and Hillman. 3,334,530.
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Abbott, Samuel L., to Abbott Machine Co., Inc. Stopping winding of yarn having enlargements. 3,304,016, 2–14–67, Cl. 242—36.

Abbott, Samuel L., to Abbott Machine Co., Inc. Yarn traversing roll for winding machines. 3,319,900, 5–16–67, Cl. 242—43.2.

Abbott, Samuel L., to Abbott Machine Co., Inc. Textile drafting apparatus. 3,323,180, 6–6–67, Cl. 19—288.

Abbott, Thomas I., to Eastman Kodak Co. Photographic spirit duplicating process. 3,295,969, 1–3–67. Cl. 96—28.

Abbott, Thomas I., and E. C. Yackel, to Eastman Kodak Co. Lithographic process using a stop bath. 3,326,685, 6–20–67, Cl. 96—62.

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Abdalian, Robert V.: *See*—
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Abdo, Daniel A., to The Boeing Co. Process for making a temperature sensitive color reversible pigment and resulting product. 3,352,794, 11–14–67, Cl. 252—408.

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Abe, Akira, to Kabushiki Kaisha Hitachi Seisakusho. Production of semiconductor elements by the diffusion process. 3,311,963, 4–4–67, Cl. 29—25.3.

Abe, Akira, Y. Kumegawa, and M. Kiyota. Vending machine control system. 3,323,626, 6–6–67, Cl. 194—10.

Abe, Hitoshi, and K. Imai, to Kurashiki Rayon Co., Ltd. Methyl methacrylate syrup composition containing poly-α-methyl styrene. 3,309,424, 2–14–67, Cl. 260—885.

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Abel, Martin L., to The Permawick Co. Package of oil-impregnated fibers. 3,306,438, 2–28–67, Cl. 206—56.

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Abell, Jared, to Chevron Research Co. Process for manufacture of thiophenol from alkali metal cyclohexane sulfonates. 3,340,307, 9–5–67, Cl. 260—609.

Abell, Jerrold J., and R. C. Berry, to Rogers Corp. Method of making a waterproof gas-permeable plastic sheet. 3,348,-991, 10–24–67, Cl. 156—300.

Abell, Jerrold J., and K. J. Virkus, to Rogers Corp. Microporous plastic sheet material and method of making the same. 3,349,046, 10–24–67, Cl. 260—2.5.

Abell, Joseph B., Jr., L. W. Fannin, and J. F. Roth, to Monsanto Co. Dehydrogenation of saturated hydrocarbons over noble-metal catalyst. 3,315,007, 4–18–67, Cl. 260—683.3.

Abell, Joseph B., Jr., L. W. Fannin, and J. F. Roth, to Monsanto Co. Dehydrogenation of saturated hydrocarbons over noble-metal catalyst. 3,315,008, 4–18–67, Cl. 260—683.3.

Abell, Roy F., Jr., to Eaton Yale & Towne Inc. Tappet. 3,322,-104, 5–30–67, Cl. 123—90.

Abella, Carlos A. Capsule for insertion in the digestive tract. 3,315,660, 4–25–67, Cl. 128—2.

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Abermeth, Hubert, and P. Combucheu, to Klockner-Humboldt-Deutz Aktiengesellschaft. Rotary piston machine, particularly rotary piston internal combustion engine. 3,295,754, 1–3–67, Cl. 230—145.

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Abernethy, Robert B., to United Aircraft Corp. Recover bleed air turbojet. 3,344,606, 10–3–67, Cl. 60—241.

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Pataki, Antal, Hossain, and Johnson. 3,321,421.
Stokes, Joseph L., and Attle. 3,322,096.

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Abolins, Visvaldis, and R. M. Lukes, to General Electric Co. Inorganic molding compositions of the asbestos-orthophosphoric acid-type and products produced therefrom. 3,322,-549, 5–30–67, Cl. 106—38.3.

Abos, Ralph L. Brine metering float valve. 3,326,377, 6–20–67, Cl. 210—126.

Aboulafia, Joseph, to Ethylene-Plastique. Process for improving the dye affinity of polyolefins. 3,332,906, 7–25–67, Cl. 260—41.

Aboytes, Peter, and J. Iannicelli, to J. M. Huber Corp. Antioxidant carbon black. 3,323,932, 6–6–67, Cl. 106—307.

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Abplanalp, Robert H. Ejector dispenser and fitment for puncture of hermetically sealed product container. 3,356,262, 12–5–67, Cl. 222—82.

Abplanalp, Robert H., and J. R. Focht, to Precision Valve Corp. Spraying dispenser with separate holders for material and carrier fluid. 3,326,469, 6–20–67, Cl. 239—308.

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Abraham, George. Variable gain tunneling. 3,327,136, 6–20–67 Cl. 307—88.5.

Abraham, George. Multiple avalanche device. 3,328,605, 6–27–67, Cl. 307—88.5.

Abraham, George. Electrical switching means. 3,333,196, 7–25–67, Cl. 325—22.

Abraham, George. Single negative resistance tristable operation. 3,355,597, 11–28–67, Cl. 307—88.5.

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Abrahamson, Wayne E., to Phillips Petroleum Co. Turn around for catalyst reactor. 3,299,165, 1–17–67, Cl. 260—683.68.

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Abramo, John G., to E. I. du Pont de Nemours and Co. Blends of the polypyromellitamide of bis(4-aminophenyl)ether and polypyromellitamide-acid of an aromatic diamine. 3,342,897, 9–19–67, Cl. 260—857.

Abramoff, Jacques. Paper dispenser. 3,347,480, 10–17–67, Cl. 242—55.2.

Abrams, Ellis R. Awnings and canopies. 3,334,434, 8–8–67, Cl. 52—11.

Abrams, Gilbert L., to Guild Molders, Inc. Combined closure and sealing member. 3,295,711, 1–3–67, Cl. 220—24.5.

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Abrams, John R., L. G. Blomquist, and J. Fine, to Interchemical Corp. Linting test. 3,354,712, 11–28–67, Cl. 73—150.

Abrams, Louis V., and R. M. Trent, to The Pangborn Corp. Metal cleaning. 3,320,701, 5–23–67, Cl. 51—5.

Abrams, Louis V., and R. W. Moore, to The Pangborn Corp. Throwing wheel vane and method of manufacture thereof. 3,333,365, 8–1–67, Cl. 51—9.

Abrams, Solomon. Electric soldering gun having adjustable electrodes. 3,337,713, 8–22–67, Cl. 219—234.

Abrams, William L. Decorative panel. 3,308,875, 2–14–67, Cl. 160—369.

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Abramson, Bernard, and M. S. Herstein, to Revlon, Inc. Liquid aerosol propellant solutions of fatty acid salts of physiologically active amines. 3,304,230, 2–14–67, Cl. 167—82.

Abramson, Franz W., to Lockheed Aircraft Corp. Hydroski vehicle. 3,308,780, 3–14–67, Cl. 114—66.5.

Abramson, Hugo, to Forsvarets Fabrikavark. Projectile with a rearwardly directed steering tube. 3,347,492, 10–17–67, Cl. 244—328.

Abramson, Louis D. Powerized spray gun. 3,352,497, 11–14–67, Cl. 239—332.

Abramson, Paul, and P. H. Chin, to International Business Machines Corp. Electronic ring circuit comprising plurality of first and second switching means driven by overlapping A.C. waveforms. 3,329,831, 7–4–67, Cl. 307—88.5.

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Accary, Andre, and J. Trouve, to Commissariat a l'Energie Atomique. Method of making bars of an uranium compound and in particular uranium carbide. 3,338,988, 8–29–67, Cl.

Acciarri, Jerry A., and E. P. Kennedy, to Continental Oil Co. Separation of alkanols from hydrocarbons using benzyl alcohol, dimethylformamide, furfuryl alcohol, furfural and mixtures thereof. 3,305,592, 2–21–67, Cl. 260—643.

Acciarri, Jerry A., and W. B. Carter, to Continental Oil Co. Production of alpha-olefins. 3,358,050, 12–12–67, Cl. 260—683.15.

Accorsi, Frank J., to North American Aviation, Inc. Aircraft propulsion system. 3,356,152, 12–5–67, Cl. 170—135.74.

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Acheson, Donald T., to United States of America, Army. Tie down clamp. 3,337,175, 8–22–67, Cl. 248—361.

Achkio, Anthony A., to Pittsburgh Plate Glass Co. Preliminary pressing of bent glass laminated assemblies. 3,351,001, 11–7–67, Cl. 100—176.

Achler, Howard S., and H. Kaufmann, to Kaufmann Tool and Engineering Corp. Machine for rolling arcuate sheet metal shapes. 3,304,757, 2–21–67, Cl. 72—166.

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Achon, Marco A., to The General Tire & Rubber Co. Polymerization of organic epoxides using certain metallic oxides and metallo organo compounds. 3,296,152, 1–3–67, Cl. 260—2.

Achon, Marco A., to Avisun Corp. Process for the copolymerization of alpha-olefins in the presence of a coordination catalyst and an organic sulfur compound. 3,303,175, 2–7–67, Cl. 260—88.2.

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Achterberg, Arno, H. Gormar, and K.-H. Kleefisch, to Dynamit Nobel Aktiengesellschaft. Sheet extrusion dies for the extrusion of thermoplastics. 3,344,473, 10–3–67, Cl. 18—12.

Achucarro, Jose L. Freeze-drying apparatus and method. 3,308,551, 3–14–67, Cl. 34—5.

Achucarro, Jose L. Freeze-drying apparatus. 3,323,225, 6–6–67, Cl. 34—92.

Acker, Andre, and J. Taillardat, to Esso Research and Engineering Co. Process for obtaining mineral oils with improved resistance to oxidation. 3,318,799, 5–9–67, Cl. 208—14.

Acker, Clarence R., to McGraw-Edison Co. Combined street light and residential power construction. 3,341,718, 9–12–67, Cl. 307—157.

Acker, Donald S., to E. I. du Pont de Nemours and Co. Process and composition for curing selected thiocarboxylic acid fluoride polymers and the cured polymers. 3,297,790, 1–10–67, Cl. 260—874.

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Acker, Ellsworth G., and F. R. Hurley. Process for the preparation silica gel. 3,313,739, 4–11–67, Cl. 252—451.

Acker, Eric O., E. O. Acker, Jr., and P. P. Kimball. Forming machine. 3,295,345, 1–3–67 Cl. 72—24.

Acker, Eric O., Jr.: *See*—
Acker, Eric O., E. O. Acker, Jr., and Kimball. 3,295,345.

Acker, George H., to Eaton Mfg. Co. Inlet side pressure storage and stall breakaway mechanism for single line progressive feeder manifold. 3,337,003, 8–22–67, Cl. 184—7.

Acker, Richard C., and E. Bahniuk, to The Weatherhead Co. Piston diaphragm pump. 3,354,831, 11–28–67, Cl. 103—44.

Ackerman, Charles B., and D. J. Sullivan, to Motorola, Inc. Alloy-diffused method for producing semiconductor devices. 3,309,244, 3–14–67, Cl. 148—178.

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Ackerman, Joseph I., Jr., to United Merchants and Manufacturers, Inc. Process for tonal coloring of fabrics. 3,304,195, 2–14–67, Cl. 117—37.

Ackerman, Nathan. Power feed with liquid check. 3,313,-214, 4–11–67, Cl. 92—8.

Ackerman, Nathan. Fluid flow control device and mechanisms embodying the same. 3,348,576, 10–24–67, Cl. 137—625.43.

Ackerman, Stanley C., to General Electric Co. Incandescent lamp with a tungsten filament with tantalum imbedded in the surface to act as a gettering agent. 3,346,761, 10–10–67, Cl. 313—180.

Ackermann, Ernest: *See*—
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Ackermann, Karl: *See*—
Herold, Charles V., and Ackermann. 3,305,398.

Ackermann, Karl, to Societe Des Accumulateurs Fixes et de Traction. Production of electrodes for alkaline storage batteries wherein active material is at least partially formed from the metals in said grid. 3,356,534, 12–5–67, Cl. 136—6.

Ackermann, Karl, deceased, by K. Siebert, representative, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of negative electrodes for fuel cells. 3,360,402. 12–26–67, Cl. 136—120.

Ackermann, Karl, and R. Socha, to Robert Bosch Elektronik G.m.b.H. Lighting device. 3,299,788, 1–24–67, Cl. 95—11.

Ackermann, Karl, S. Schone, and W. Nimz, to Robert Bosch Elektronik G.m.b.H. Projector. 3,330,059, 7–11–67, Cl. 40—79.

Ackermann, Karl, K. Bartos, and S. Schone, to Robert Bosch Elektronik G.m.b.H. Pointer for a slide projector. 3,343,452, 9–26–67, Cl. 88—24.

Ackermann, Walter T., and C. W. Lindsley, to Radio Corp. of America. Method of manufacture of electron discharge tube grid electrodes. 3,303,859, 2–14–67, Cl. 140—71.5.

Ackley, Clifford L.: *See*—
Ackley, Edward L. 3,330,302.

Ackley, Edward L., ½ to C. L. Ackley. Valve hydraulic fluid conduit assembly. 3,330,302. 7–11–67, Cl. 137—625.29.

Ackley, Edward L. High speed rotary hydraulic motor. 3,350,985. 11–7–67, Cl. 91—87.

Ackroyd, Muriel D., to Eastman Kodak Co. Photographic objective of the Cooke triplet type. 3,359,057, 12–19–67, Cl. 350—206.

Ackroyd, Ronald T.: *See*—
Dryden, Hugh L. 3,304,028.

Ackroyd, Ronald T., R. M. Lord, and J. E. Mann, to United Kingdom Atomic Energy Authority. Fast nuclear reactor. 3,338,790, 8–29–67, Cl. 176—18.

Acloque, Paul H., to Compagnie de Saint-Gobain. Apparatus for measuring phase differences in polarized light. 3,345,905. 10–10–67, Cl. 88—14.

Acloque, Paul H., to Compagnie de Saint-Gobain. Projection of negatives as positives by employing a phototropic screen and an auxillary visible light source. 3,355,588, 11–28–67, Cl. 250—71.

Acme Abrasive Co.: *See*—
Zawodni, James T., and Markotan. 3,315,418.

Acme Backing Corp.: *See*—
Freydberg, Ralph M. 3,315,456.

Acme Bulletin & Directory Board Corp.: *See*—
Timlin, George A. 3,345,766.

Acme Chain Corp.: *See*—
McCann, John F. 3,340,745.

Acme Cloth Reel Co.: *See*—
McKittrick, James L., and Provence. 3,341,000.

Acme Engineering and Mfg. Corp.: *See*—
Bohanon, Hoy R. 3,307,469.
Bohanon, Hoy R. 3,318,224.

Acme Fishing Tool Co.: *See*—
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Acme Highway Products Corp.: *See*—
Crone, Alfred F. 3,324,775.

Acme Industries, Inc.: *See*—
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Greenfield, John B. 3,352,546.
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Acme-Lite Mfg. Co.: *See*—
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Acme Metal Slide, Inc.: *See*—
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Acme Plate & Mat Co.: *See*—
Betner, Thomas E. 3,317,068.

Acme Process Equipment Co.: *See*—
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Acme Spring Co.: *See*—
Swatt, Leonard W. 3,337,882.

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Acme Visible Records, Inc.: *See*—
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Fleischhauer, Eugene T. 3,352,651.
Fleischhauer, Eugene T. 3,352,740.
Fleischhauer, Eugene T., Harding, and Wood. 3,334,635.
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Anthes, Clifford C., and Acomb. 3,338,549.

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Acorn Products Co.: *See*—
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Acree, Elick H., and W. G. Tatum, to United States of America, Atomic Energy Commission. Neutron source. 3,360,477, 12–26–67, Cl. 252—301.1.

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Acton, Hugh C. Wall wardrobe. 3,300,263, 1–24–67, Cl. 312—245.

Acton, Hugh C., to Brunswick Corp. Wall wardrobe. 3,346,314, 10–10–67, Cl. 312—245.

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Kano, Hideo, Adachi, Kido, and Hirose. 3,321,475.

Adachi, Kazuo, M. Hoshikawa, and K. Ohira, to Tekkosha Co., Ltd. Process for producing gamma phase linear quinacridone. 3,352,867, 11–14–67, Cl. 260—279.

Adachi, Takeshi, to Tokyo Shibaura Electric Co., Ltd. Neutron generator shielding arrangement. 3,345,515, 10–3–67, Cl. 250—84.5.

Adachi, Takeshi, and H. Kamogawa, to Tokyo Shibaura Electric Co., Ltd. Particle accelerating tubes. 3,329,848, 7–4–67, Cl. 313—63.

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Adair, Adolphus G. Wrenches. 3,357,285. 12–12–67. Cl. 81—93.

Adair, John D. to American Meter Co., Inc. Remote meter reading system. 3,331,046, 7–11–67, Cl. 338—129.

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Stewart, Douglas C., Adair, and Gerlach. 3,300,914.

Adair, Ralph B.: *See*—
Browning, James S., and Adair. 3,329,265.

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Adam, Gunter: *See*—
Marker, Hannes, and Adam. 3,348,854.

Adam, Hans, and F. Schneider, to G. M. Pfaff AG. Stencil-controlled automatic sewing apparatus. 3,332,378, 7–25–67, Cl. 112—2.

Adam, James W., B. Goobich, and T. M. Trainer, to The Battelle Development Corp. Coupling with a deformable seal. 3,307,861, 3–7–67, Cl. 285—334.2.

Adam, Richard L., and T. C. Winn. Drapery traversing apparatus. 3,312,273, 4–4–67, Cl. 160—345.

Adam, Stephen F., to Hewlett-Packard Co. Variable attenuator employing internal switching. 3,319,194, 5–9–67, Cl. 333—81.

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Adam, William B., to Boeing Airplane Co. Conical scan radar system and antenna. 3,307,183, 2–28–67. Cl. 343—16.

Adamczyk, Jan, to Firth Cleveland Ltd. Step climbing wheel carriage. 3,31,270, 10–10–67. Cl. 280—5.28.

Adamek, Stephen, and B. B. J. Wood, to Dunlop Rubber Co. Ltd. Process for the preparation of polymers. 3,325,456, 6–13–67. Cl. 260—79.7.

Adamek, Stephen, and B. B. J. Wood, to Dunlop Rubber Co. Ltd. Polyurethanes. 3,359,244. 12–19–67. Cl. 260—77.5.

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Adams, Andrew O., to Leach Corp. Integral preloaded contact structure. 3,324,268, 6–6–67. Cl. 200—166.

Adams, Andrew O., and M. G. Nelsen, to Leach Corp. Integral terminal pin contact structure for relays. 3,329,791, 7–4–67, Cl. 200—166.

Adams, Arthur A. Selectable pitch rafter cutting guide. 3,304,614, 2–21–67, Cl. 33—75.

Adams, Arthur A. Cutting gage and guide. 3,349,496, 10–31–67, Cl. 33—143.

Adams, Bobby F., and J. H. Wotiz, to Diamond Alkali Co. Cyclic acetylenic hydrocarbon preparation. 3,296,321, 1–3–67, Cl. 260—666.

Adams, Bobby F., and J. H. Wotiz, to Diamond Alkali Co. Unsaturated acids derived from polyacetylenic compounds. 3,299,111, 1–17–67, Cl. 260—413.

Adams, Boyce M.: *See*—
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Adams, Brandon L. Apparatus and method for measuring cardiac output. 3,347,224, 10–17–67, Cl. 128—2.05.

Adams, Campbell V.: *See*—
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Adams, Campbell V., and H. G. Warrington, to Vulcan Iron Works, Inc. Power hammer. 3,357,315, 12–12–67, Cl. 91—277.

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Lester, George R., and Adams. 3,304,268.

Adams, Cecil E., to Abex Corp. Hydraulic transmission and speed and direction control valve therefor. 3,333,415, 8–1–67, Cl. 60—52.

Adams, Cecil E., G. E. De Villers, and G. M. Hipple, to Abex Corp. Control for variable displacement pump or motor. 3,302,585, 2–7–67, Cl. 103—162.

Adams, Cecil E., and R. E. Griffith, to American Brake Shoe Co. Method and apparatus for improving efficiency of vane pumps. 3,359,914, 12–26–67, Cl. 103—136.

Adams, Cecil E., and G. E. De Villers, to Abex Corp. Retarder systems. 3,360,304, 12–26–67, Cl. 303—18.

Adams, Cecil S. and J. B., F. B. Bailey, and E. F. Walker. Switch control apparatus with improved brush contact means. 3,319,017, 5–9–67, Cl. 200—18.

Adams, Charles H.: *See*—
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Adams, Charles L.: *See*—
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Adams, Charles R., to Shell Oil Co. Oxidative dehydrogenation of alkyl benzenes with $CaNiPO_4$ and SO_2. 3,299,155, 1–17–67, Cl. 260—669.

Adams, Charles R., to Shell Oil Co. Vinyl thiophene production. 3,309,381, 3–14–67, Cl. 260—329.

Adams, Charles T., S. G. Brandenberger, and M. Nager, to Shell Oil Co. Preparation of fluorided tungsten-nickel hydrocracking catalysts. 3,301,793, 1–31–67, Cl. 252—441.

Adams, Chauncey, Jr. Constant heat control system. 3,355,104, 11–28–67, Cl. 236—77.

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Adams, Clark E., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Napthenic isomerization process with synthetic mordenite. 3,299,153, 1–17–67, Cl. 260—666.

Adams, Clyde M., Jr., to American Machine & Foundry Co. Method and apparatus for welding of rails. 3,308,266, 3–7–67, Cl. 219—137.

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Adams, Donald A., to Hercules Inc. Phenol purification by base addition and plural distillation. 3,335,070, 8–8–67, Cl. 203—37.

Adams, Donald R. Manicure implement. 3,298,381, 1–17–67, Cl. 132—76.4.

Adams, Douglas P., to United States of America, Air Force. Nomographic computer scanning means. 3,350,156, 10–31–67, Cl. 350—202.

Adams, Dustin S., to E. I. du Pont de Nemours and Co. Process for preparing molded, three dimension textile articles. 3,331,906, 7–18–67. Cl. 264—292.

Adams, Edmond, and H. H. Helms, Jr., to United States of America, Navy. Method of making a magnetic sheet. 3,306,742, 2–28–67. Cl. 75—211.

Adams, Edward J.: *See*—
Blackburn, Robert W., Brown, and Adams. 3,357,889.

Adams, Edward W. Vehicle cupola structure. 3,324,610, 6–13–67, Cl. 52—72.

Adams, Edwin C., L. Michnik, and R. D. Witulski, to Sierra Research Corp. Doppler target simulator. 3,329,953, 7–4–67, Cl. 343—17.7.

Adams Electronics, Inc.: *See*—
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Adams, Stanley A. 3,355,688.

Adams, Elmer L., deceased, (by W. J. Adams, executrix), to Owens-Illinois, Inc. Elastic melt extruder for extruding thermoplastics. 3,343,212, 9–26–67, Cl. 18—12.

Adams, Erby E. Concealed collar and tie tack. 3,319,304, 5–16–67. Cl. 24—49.

Adams, Floyd L. Traffic directing marker. 3,334,554, 8–8–67, Cl. 94—1.5.

Adams, Floyd S., to Smada Corp. Method and apparatus for preparing brushes for trimming. 3,295,893, 1–3–67, Cl. 300—21.

Adams, Frank H. Universal joint. 3,359,757, 12–26–67, Cl. 64—8.

Adams, Frank R. Magnetic actuator device with coupled rotors. 3,299,381, 1–17–67, Cl. 335—232.

Adams, Frank R. Proportional magnetic actuator device. 3,304,526, 2–14–67, Cl. 335—230.

Adams, Frank S., Jr., to The Procter & Gamble Co. Process for making a resinous dentifrice cleaning agent. 3,357,951, 12–12–67, Cl. 260—59.

Adams, Fred, to General Motors Corp. Brake mechanism. 3,295,636, 1–3–67, Cl. 188—18.

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Adams, Frederick J., to Hydrosteer Ltd. Power operated steering gear. 3,312,148, 4–4–67, Cl. 91—462.

Adams, Frederick J., to Hydrosteer Ltd. Power assisted steering or like control gear. 3,352,170, 11–14–67, Cl. 74—388.

Adams, Frederick J., and H. K. Alderton, to Hydrosteer Ltd. Steering mechanism. 3,347,109, 10–17–67, Cl. 74—388.

Adams, Frederick L., to Dresser Industries, Inc. Tubing centralizer attachment for well spider. 3,353,235, 11–21–67, Cl. 24—263.

Adams, George C., to Rollform, Inc. Expansion connection for fire rated ceiling grid system. 3,350,125, 10–31–67, Cl. 287—189.36.

Adams, George E.: *See*—
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Adams, George F. Apparatus for contacting fluidizable solids with gasiform fluids. 3,309,784, 3–21–67, Cl. 34—57.

Adams, George F., to UOP Process Division (a division of Universal Oil Products Co.). Ethylene production and recovery thereof. 3,360,587, 12–26–67, Cl. 260—683.

Adams, George M., to Union Carbide Corp. Printing ink comprising polyol, polyisocyanate and polymeric resin hardener. 3,316,189, 4–25–67, Cl. 260—13.

Adams, George R., and R. M. Mihalek, to Sperry Rand Corp. High speed web or paper feeder. 3,315,860, 4–25–67, Cl. 226—47.

Adams, Harold E., to The Nash Engineering Co. System for handling fluids in both liquid and gaseous phases. 3,304,006, 2–14–67, Cl. 237—67.

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Hickey, Frank D., Adams, and Hirahara. 3,295,982.
Hickey, Frank D., Adams, Hirahara, Anderson, and Chamberlin. 3,331,375.

Adams, Harry: *See*—
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Adams, Henry H., Jr., and P. D. Fisher, to Atlantic Research Corp. Rocket nozzle. 3,341,129, 9–12–67, Cl. 239—265.11.

Adams, Herbert D.: *See*—
Silvia, Denis A., Adams, and Abernathy. 3,326,125.

Adams, Hugh D. Bird releaser for bird dog training device. 3,310,032, 3–21–67, Cl. 119—15.6.

Adams, Ian L., to J. R. Siddons. Apparatus for feeding and fastening clips. 3,319,864, 5–16–67, Cl. 227—76.

Adams Inc.: *See*—
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Long, Noel V., and Buckley. 3,340,537.

Adams, J. D., Co.: *See*—
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Adams, Jack D. Device for use in routing hinge seats. 3,320,983, 5–23–67, Cl. 144—27.

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Adams, James C.: *See*—
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Adams, James S., to The Magnavox Co. Musical instrument switch device. 3,304,491, 2–14–67, Cl. 323—95.

Adams, Joe T.: *See*—
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Adams, Joe T., and H. F. Lykins, to Union Carbide Corp. Acid-base catalyzed modification of cellulose with hydroxyalkyl and alkoxyalkyl, epoxyalkyl sulfones. 3,312,522, 4–4–67, C. 8—120.

Adams, John, and B. W. Manley, to North American Philips Co. Inc. Light amplifier employing an electron multiplying electrode which supports a photocathode. 3,327,151, 6–20–67, Cl. 313—95.

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Adams, John M., and J. A. White, Jr., to International Business Machines Corp. Frame fabrication method. 3,339,268, 9–5–67, Cl. 29—475.

Adams, John Q.: *See*—
Adams, David and J. Q. 3,340,849.
Ruskin, Frances R., and Adams. 3,334,597.

Adams, John W., and E. F. Wickens, to Ingersoll-Rand Co. Rock drill reamer. 3,297,099, 1–10–67, Cl. 175—96.

Adams, Kenneth C., to Allis-Chalmers Mfg. Co. Wheel clamp. 3,348,884, 10–24–67, Cl. 301—9.

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Adams, Kenneth D., to The Singer Co. Air operated needle positioners. 3,320,914, 5–23–67, Cl. 112—219.

Adams, Kenneth D., and E. H. Kay, to The Singer Co. Automatic apparatus for sewing machines and the like. 3,352,-263, 11–14–67, Cl. 112—2.

Adams, Kenneth W., to United States of America, Navy. High pressure nose for a body in flight. 3,298,312, 1–17–67, Cl. 102—92.5.

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Adams, Leonard H.: *See*—
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Adams, Mark F.: *See*—
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Herrick, Ivan, Adams, and Huffaker. 3,350,259.

Adams, Mark F., to Northwest Magnesite Co. Method of preparing magnesia. 3,320,029, 5–16–67, Cl. 23—201.

Adams, Mark F., to St. Regis Paper Co. Process for preparing arabinogalactan. 3,337,526, 8–22–67, Cl. 260—209.

Adams, Michael C., to Versi-Tex Plastics, Inc. Method and apparatus for waterproofing basements. 3,332,185, 7–25–67, Cl. 52—287.

Adams, Norbert, T. Mukerjee, and J. M. Smith, to General Electric Co. Semiconductor diode with integrated mounting and small area fuse impurity junction. 3,297,920, 1–10–67, Cl. 317—234.

Adams, Norman C.: *See*—
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Adams Paper Converting Co.: *See*—
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Adams, Paul R., C. C. Miller, Jr., and R. S. Bovitz, to International Telephone and Telegraph Corp. Gyroscope. 3,309,931, 3–21–67, Cl. 74—5.

Adams, Paul R., and J. W. Whitesel, to International Telephone and Telegraph Corp. Typewriter margin control device having means to position carriage return codes. 3,340,-986, 9–12–67, Cl. 197—20.

Adams, Philip N., to Mueller-Co. Method of making a pipe clamp device. 3,355,794, 12–5–67, Cl. 29—479.

Adams, Phylander S. Automatic safety relief and back pressure valve. 3,348,615, 10–24–67, Cl. 166—97.

Adams, Ralph M.: *See*—
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Adams, Renard P. Backwash means for an open ended multiple tube filter assembly. 3,318,452, 5–9–67, Cl. 210—333.

Adams, Richard A., to Dunlop Rubber Co., Ltd. Spot type disc brakes. 3,318,420, 5–9–67, Cl. 188—73.

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Adams, Robert B., to Moore Products Co. Fluid control apparatus. 3,357,441, 12–12–67, Cl. 137—81.5.

Adams, Robert E., to Gifford-Wood, Inc. Continuous flow counter-current liquid and solids contact apparatus. 3,297,-043, 1–10–67, Cl. 134—60.

Adams, Robert E., to Gifford-Wood, Inc. Mixing apparatus. 3,297,309, 1–10–67, Cl. 259—115.

Adams, Robert H., to Johns-Manville Corp. Method for steam curing of articles comprising fiber, hydraulic cement, and silica. 3,327,032, 6–20–67, Cl. 264—82.

Adams, Robert K. Long-span prestressed beam structure. 3,323,263, 6–6–67, Cl. 52—223.

Adams, Robert T.: *See*—
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Adams, Robert T., to Sichak Associates. Frequency diversity transmitting system. 3,310,742, 3–21–67, Cl. 325—56.

Adams, Robert T., to Chevron Research Co. Inhibition of corrosion during catalytic reactions. 3,347,947, 10–17–67, Cl. 260—671.

Adams, Robert T., E. E. Johnson, and J. M. Salmela, to Chevron Research Co. Production of alkali metal alkyl sulfonates. 3,306,931, 2–28–67, Cl. 260—513.

Adams, Robert T., and H. J. Aroyan, to Chevron Research Co. Process for preparing biodegradable detergent alkylate. 3,333,014, 7–25–67, Cl. 260—671.

Adams, Robert T., and M. F. Hughes, to Chevron Research Co. Preparation of alkylaromatic hydrocarbons suitable as detergent alkylate. 3,351,672, 11–7–67, Cl. 260—671.

Adams, Robert V., to The Bunker-Ramo Corp. Continuous casting system. 3,358,743, 12–19–67, Cl. 164—154.

Adams, Roger L. to United States of America, Interior. Process for conveying mineral solids through conduits. 3,341,256, 9–12–67, Cl. 302—66.

Adams, Roman A.: *See*—
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Adams, Roman A., to The A. B. Dick Co. Magnetostrictive ink jet. 3,334,350, 8–1–67, Cl. 346—75.

Adams, Roman A., to The A. B. Dick Co. Ink jet printer. 3,341,-859, 9–12–67, Cl. 346—140.

Adams, Ronald L., P. C. Clark, E. A. Hawkins, and J. L. Montgomery, to The Mead Corp. Process of coating paper with attapulgite clay. 3,320,691, 7–11–67, Cl. 117—155.

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Adams, Samuel F., and E. H. Guerin, Jr., to American Paper Tube Co. Instant-wind bobbins. 3,321,901, 5–30–67, Cl. 57—131.

Adams, Stanley A., to Adams Electronics, Inc. Variable inductor with a reinforced coil form. 3,355,687, 11–28–67, Cl. 336—136.

Adams, Stanley A., to Adams Electronics, Inc. Inductor with a reinforced plastic form. 3,355,688, 11–28–67, Cl. 336—192.

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Adams, Thomas J., and C. Savides, to American Cyanamid Co. Antistatic polyolefin composition. 3,335,123, 8–8–67, Cl. 260—94.9.

Adams, Vilma A. Handbag construction. 3,335,775, 8–15–67, Cl. 150—30.

Adams, Wanda J.: *See*—
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Adams, William E. Method of making irregularly shaped hollow plastic bodies. 3,300,355, 1–24–67, Cl. 156—189.

Adams, William E., to H. H. Robertson Co. Explosion pressures and/or heat and smoke venting units. 3,337,991, 8–29–67, Cl. 49—3.

Adams, William J., Jr.: *See*—
Oldenkamp, Henry A., and Adams. 3,314,462.

Adams, William M. Apparatus for the recovery of silver from used photographic fixing solutions by electrolysis. 3,342,718, 9–19–67, Cl. 204—273.

Adams, William M., and J. L. Fuesiein, to International Harvester Co. Retractable tail light for tilt body vehicle. 3,331,957, 7–18–67, Cl. 240—8.3.

Adamski, Joseph, to Dura Corp. Convertible top mechanism. 3,297,357, 1–10–67, Cl. 296—117.

Adamski, Joseph, to Dura Corp. Convertible top. 3,328,072, 6–27–67, Cl. 296—116.

Adamski, Joseph, to Dura Corp. Convertible top mechanism. 3,342,524, 9–19–67, Cl. 296—117.

Adamson-Alliance Co. Ltd., The: *See*—
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Adamson, Fred B.: *See*—
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Adamson, Kenneth W. Apparatus for etching metal. 3,348,-557, 10–24–67, Cl. 134—113.

Adamson, Leslie H., to Hughes Aircraft Co. Memory protection system. 3,321,747, 5–23–67, Cl. 340—172.5.

Adamson, Melvin L. Quick change face plates for vice jaws. 3,341,190, 9–12–67, Cl. 269—271.

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Seanor, Rex C., and Perlberg. 3,358,321.

Adamson, William M., and N. B. Newton, to United Aircraft Corp. Shaft stopping device. 3,353,643, 11–21–67, Cl. 192—141.

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Addis, Bernard F.: *See*—
Fields, Davis S., Jr., Mehl, and Addis. 3,340,101.

Addis, Gilbert I.: *See*—
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Humphrey, Laurence E., Addis, and Hess. 3,333,049.
Humphrey, Laurence E., Addis, and Hess. 3,333,050.

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Addison, George T., W. Askew, and H. J. Fruin, to British Jeffrey-Diamond Ltd. Cutting apparatus having speed and load controlled hydraulic drive. 3,323,839, 6–6–67, Cl. 299—1.

Addison, Harry W., Jr. Stair traversing wheel chair mechanism. 3,295,858, 1–3–67, Cl. 280—5.3.

Addison, Harry W., Jr. Pilot operated metering device. 3,315,694, 4–25–67, Cl. 137—110.

Addison, John S., and R. P. Ryan, to Signode Corporation. Load retaining flexible sling. 3,298,326, 1–17–67, Cl. 108—51.

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Addor, Roger W., to American Cyanamid Co. O- and Δ-allyloxyphenyl and Δ-alkoxyphenyl-N-methyl carbamates and the insecticidal use thereof. 3,296,068, 1–3–67, Cl. 167—30.

Addor, Roger W., to American Cyanamid Co. 2-oximinothiolanes and related compounds. 3,317,562, 5–2–67, Cl. 260—327.

Addor, Roger W., to American Cyanamid Co. 2-iminothiolanes and related compounds. 3,318,910, 5–9–67, Cl. 260—327.

Addor, Roger W., to American Cyanamid Co. Insecticidal compositions containing carbamates of 5- and 6-membered hetero-sulfur compounds and method of controlling insects with same. 3,338,782, 8–29–67, Cl. 167—33.

Addor, Roger W., to American Cyanamid Co. Herbicidal and insecticidal composition. 3,348,940, 10–24–67, Cl. 71—90.

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Schulze, Erwin F. C. 3,343,112.
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Shibukawa, Takashi, and Uchida. 3,322,743.
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Whaley, Howard A., and Patterson. 3,321,368.
Wilde, Frederick G. 3,320,195.
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Addy, Leslie E., to British Hydrocarbon Chemicals Ltd. Process for the production of olefines by the dehydrochlorination of alkyl chlorides. 3,325,554, 6–13–67, Cl. 260—677.

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Adelman, Milton, and R. Leibowitz, to United States of America, Navy. Method and apparatus for testing photomultipliers employing a color temperature corrected light source. 3,333,184, 7–25–67, Cl. 324—20.

Adelman, Philip. Inclined planter and retaining wall construction. 3,343,301, 9–26–67, Cl. 47—33.

Adelt, Joseph W., to Echlin Mfg. Co. Hydraulic actuator. 3,336,842, 8–22–67, Cl. 92—75.

Adema, Eduard H. J. B. M. Laauwen, and J. C. Soeterbroek, to Stamicarbon N.V. Process for the preparation of polypropylene. 3,318,859, 5–9–67, Cl. 260—93.7.

Adema, Eduard H. J. B. M. Laauwen, and J. C. Soeterbroek, to Stamicarbon N.V. Stereospecific polymerization of alpha-olefins in the presence of titanium trichloride, alkyl aluminum dihalide and an ether. 3,318,861, 5–9–67, Cl. 260—93.7.

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Adler, Alan J. Portable fluorescent lamp. 3,331,958, 7–18–67, Cl. 240—10.6.

Adler, Benjamin H. Suspensory system for objects. 3,330,518, 7–11–67, Cl. 248—223.

Adler, Clarence E., to Toledo Scale Corp. Ticket printing and issuing machine. 3,334,583, 8–8–67, Cl. 101—66.

Adler, Everett J., and H. J. Greenberg, to Engelhard Industries, Inc. Thermocouple with platinum group metal inner sheath. 3,329,534, 7–4–67, Cl. 136—233.

Adler, Irwin L., and A. Apostolina, to General Foods Corp. Process for preparing puffed potato product. 3,338,724, 8–29–67, Cl. 99—207.

Adler, Karl, and G. Ducommun, to Bivlator S.A. Automatic diaphragm-setting device. 3,340,785, 9–12–67, Cl. 95—10.

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Adler, Meryle D. W., and R. A. Simon, to Corning Glass Works. Drawing sheet glass. 3,322,523, 5–30–67, Cl. 65—101.

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Adler, Orville E., to National-Standard Co. Aluminum clad electric conductor wire. 3,306,716, 2–28–67, Cl. 29—196.2.

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Remy, Hermann, Berghaus, Adler, and Grunbacher. 3,321,-671.

Adler Process Corp.: *See*—
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Adler, Robert, to Zenith Radio Cory. Cyclotron and synchronous parametric amplifiers and synchronous oscillators and isolators using bifilar helix coupler. 3,296,542, 1–3–67, Cl. 330—4.7.

Adler, Robert, to Zenith Radio Corp. Positive synchronous wave bifilar helix coupler and parametric amplifiers. 3,296,543, 1–3–67, Cl. 330—4.7.

Adler, Robert, to Zenith Radio Corp. Negative synchronous wave amplifier and oscillator. 3,296,548, 1–3–67, Cl. 330—46.

Adler, Robert, to Zenith Radio Corp. Quadrupole parametric amplifier with gradual pump transition. 3,300,728, 1–24–67, Cl. 330—4.7.

Adler, Robert, to Zenith Radio Corp. Beam refrigeration by means of large cathode magnetic fields used in resistive load and/or with low noise amplifier. 3,315,173, 4–18–67, Cl. 330—4.7.

Adler, Robert, to Zenith Radio Corp. Multiple resonant cyclotron wave coupler for nondegenerate parametric amplifier. 3,315,174, 4–18–67, Cl. 330—4.7.

Adler, Robert, to Zenith Radio Corp. Magnetic flux measuring apparatus using nuclear magnetic resonance. 3,316,-484, 4–25–67, Cl. 324—5.

Adler, Ronald E. Illuminated sketch and memo board. 3,321,-616, 5–23–67, Cl. 240—6.4.

Adler, Solomon, to Adler Process Corp. Method and apparatus for producing pile fabric. 3,309,252, 3–14–67, Cl. 156—72.

Adler, William, H. Levenstein, and G. R. Kern. Synchro-to-digital converter. 3,335,417, 8–8–67, Cl. 340—347.

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Adolph, Horst G., J. C. Dacons, and M. J. Kamlet, to United States of America, Navy. Preparation of hydroxy nitrophenyl compounds. 3,296,315, 1–3–67, Cl. 260—620.

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Adrian, Robert G., and W. L. Lower. Tear gas gun. 3,298,125, 1–17–67, Cl. 42—1.

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Halmi, Gabor, and Advani. 3,297,651.

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Aebi, Claude M., and L. A. Teuscher, to International Business Machines Corp. Formation of diazo couplers in situ. 3,307,952, 3–7–67, Cl. 96—91.

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Aelion, Rene, J. M. Di Verdi, W. P. Moylan, and F. P. Poznick, to Foster Grant Co., Inc. Method and apparatus for processing yarn. 3,337,930, 8–29–67, Cl. 28—1.

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Aemmer, Peter, to Albiswerk Zurich A.G. Gain regulating transistor circuit for a plurality of amplifier stages. 3,319,177, 5–9–67, Cl. 330—29.

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Alban, Clarence F., to W. M. Chace, Co. Magnetized thermostatic element. 3,307,001, 2–28–67, Cl. 200—113.
Alban, Clarence F., and C. C. Perry, to W. M. Chace Co. Temperature compensated element for sensing and controlling humidity changes. 3,335,608, 8–15–67, Cl. 73—337.
Alban, Clarence F., and C. C. Perry, to W. M. Chace Co. Element for sensing and controlling humidity and temperature changes. 3,336,119, 8–15–67, Cl. 29—195.
Alban, John M. Underwater gun. 3,324,767, 6–13–67, Cl. 89—1.
Albanese, Damian F., to International Telephone and Telegraph Corp. Coherent F.M. ramp ranging system. 3,355,734, 11–28–67, Cl. 343—14.
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Albaut, Gaston, to Societe a responsabilite limitie dite Sonal. Metering pump. 3,333,543, 8–1–67, Cl. 103—38.
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Albert, Harry E., and P. G. Haines, to Pennsalt Chemical Corp. Stabilized N,N-dialkylhydroxylamine aqueous solutions. 3,338,971, 8–29–67, Cl. 260—583.

Albert, Harry E., A. C. Whiton, and B. S. Garvey, Jr., to Pennsalt Chemical Corp. Process for stopping emulsion polymerizations by the addition of dithiocarbamate salts and alkyl hydroxyl amines. 3,341,487, 9-12-67, Cl. 260—29.7.

Albert, Henry J., to Engelhard Industries, Inc. Composite grid wire for electron tubes. 3,323,882, 6-6-67, Cl. 29—193.

Albert, James R., and P. W. Hawley, to Rexall Drug and Chemical Co. Process and apparatus for solids blending. 3,351,326, 11-7-67, Cl. 259—95.

Albert, Kenneth J., to Portal Designs Corp. Lip openable closure cap for liquid containers. 3,338,467, 8-29-67, Cl. 220—90.4.

Albert, Marcel O., to Standard Packaging Corp. Cup-making machine. 3,343,465, 9-26-67, Cl. 93—39.3.

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Alberto, Pietro, and G. Moers. Unitary equipment for decatizing fabrics in autoclave. 3,331,224, 7-18-67, Cl. 68—8.

Alberts, Herbert. Injection molding apparatus for manufacturing zippers. 3,355,771, 12-5-67, Cl. 18—30.

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Albertson, Clarence E., to Borg-Warner Corp. Friction elements and methods of their manufacture. 3,326,822, 6-20-67, Cl. 260—2.5.

Albertson, Fred W., Jr., and F. W. Albertson, Sr. Electrical rail switch and control system. 3,360,645, 12-26-67, Cl. 246—219.

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Albertson, Orris E., and W. E. Budd, to Dorr-Oliver Inc. Treatment and disposal of waste sludge. 3,319,586, 5-16-67, Cl. 110—8.

Albertson, Orris E., and W. M. H. Kilmer, to Dorr-Oliver Inc. Disposal of waste material by combustion in an inert fluidized bed. 3,319,587, 5-16-67, Cl. 110—8.

Albertson, Orris E., and W. E. Budd, to Dorr-Oliver Inc. Treatment and incineration of waste sludges. 3,351,030, 11-7-67, Cl. 110—8.

Albertson, William C., Jr., to Owens-Illinois, Inc. Gauging method and apparatus. 3,321,838, 5-30-67, Cl. 33—174.

Albertus, Gundorph, to F. L. Smidth & Co. Method and apparatus for exchanging heat between solid particles and gases. 3,330,046, 7-11-67, Cl. 34—10.

Albin, Jerry R., to E. I. du Pont de Nemours and Co. Thiotrithiazyl compounds as vulcanizing agents. 3,310,538, 3-21-67, Cl. 260—79.5.

Albin, Jerry R., and J. R. Wolfe Jr., to E. I. du Pont de Nemours and Co. Chemical composition and process. 3,329,650, 7-4-67, Cl. 260—41.5.

Albinak, Marvin J., and W. H. Turner, to Owens-Illinois, Inc. Method for controlling the reduction of metallic ions in glass compositions. 3,345,190, 10-3-67, Cl. 106—47.

Albinson, Don C. Base construction for furniture and utility chair. 3,328,075, 6-27-67, Cl. 297—239.

Albinson, Don C., and C. R. Helms, to Knoll Associates, Inc. Connector means for upholstery-frame connection. 3,298,743, 1-17-67, Cl. 297—445.

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Albrecht, Adolf, and P. Hini, to Siemens-Schuckertwerke Aktiengesellschaft. Contact-free rotary resistor arrangement. 3,359,522, 12-19-67, Cl. 338—32.

Albrecht, Cornelius B. J. D'A., and P. C. van der Linden, to North American Philips Co. Inc. Method of visualizing an electrostatic charge image by exposure to charged particles of boron oxide. 3,303,027, 2-7-67, Cl. 96—1.

Albrecht, David B., to Madison Equipment Co. Electrical box support. 3,337,168, 8-22-67, Cl. 248—27.

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Albrecht, Harry A., J. T. Platt, and W. Wenner, to Hoffmann-La Roche, Inc. 2-[(2,6-dimethylpiperidino)ethyl] guanidines and intermediates. 3,317,545, 5-2-67, Cl. 260—293.

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Albrecht, William L., and M. Mindick, to Nalco Chemical Co. Nonaqueous silica sols and method for preparing same. 3,351,561, 11-7-67, Cl. 252—309.

Albright, Charles W., to Union Carbide Corp. Coal carbonization process. 3,337,417, 8-22-67, Cl. 201—9.

Albright, Denton M., W. R. Chilcott, Jr., and T. P. Floridis, to United States Steel Corp. Method of making foamed metal. 3,360,361, 12-26-67, Cl. 75—20.

Albright, Donald R., to General Electric Co. Conductor cooling system for dynamoelectric machine rotor. 3,353,043, 11-14-67, Cl. 310—61.

Albright, Franklin C., to The Bendix Corp. Friction shimmy damper. 3,345,020, 10-3-67, Cl. 244—103.

Albright, Franklin C., to The Bendix Corp. Castered wheel centering mechanism. 3,352,515, 11-14-67, Cl. 244—103.

Albright, Jay D., and L. Goldman, to American Cyanamid Co. Novel method for preparing yohimbinone. 3,318,897, 5-9-67, Cl. 260—287.

Albright, John D., and C. R. Chadbourne, to United States of America, Navy. Passive angle ranging apparatus. 3,320,615, 5-16-67, Cl. 343—112.

Albright, Lyle F., and H. F. Haug, to Purdue Research Foundation. Process for production of alkali metal nitrates and chlorine. 3,348,909, 10-24-67, Cl. 23—102.

Albright, Melvin A., to Phillips Petroleum Co. Disproportionation and dimerization. 3,330,882, 7-11-67, Cl. 260—683.15.

Albright, Merritt W. Method of making a surface joint. 3,314,140, 4-18-67, Cl. 29—473.1.

Albright, Penrose L. Portable self-supporting tent. 3,353,547, 11-21-67, Cl. 135—1.

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Wells, Frederick H., and Worrall. 3,312,604.

Alburger, James R. Method for changing and restoring the sensitivity characteristic of diluted penetrants. 3,300,642, 1-24-67, Cl. 250—71.

Alburger, James R. Penetrant inspection process and compositions. 3,311,479, 3-28-67, Cl. 106—19.

Alburger, James R. Fluorescent image-forming screen. 3,320,417, 5-16-67, Cl. 250—71.

Alburger, James R. Voltage-responsive sequencing switch. 3,335,292, 8-8-67, Cl. 307—88.5.

Alburger, James R. Method of controlling the thickness of applied thin liquid films using dye tracers. 3,341,705, 9-12-67, Cl. 250—71.

Alburger, James R. Gel-forming inspection penetrant and emulsifier compositions and processes. 3,349,041, 10-24-67, 252—301.2.

Alburn, Harvey E.: *See*—
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Alburn, Harvey E., and N. H. Grant, to American Home Products Corp. Method of preparing anhydrous ampicillin. 3,299,046, 1-17-67, Cl. 260—239.1.

Alburn, Harvey E., D. E. Clark, and N. H. Grant, to American Home Products Corp. Hydantoins. 3,300,510, 1-24-67, Cl. 260—309.5.

Alburn, Harvey E., and W. Dvonch, to American Home Products Corp. Potassium hydrogen sulfite addition product 6-L-(1-cytosinyl) and (1-uracilyl)-5-hydroxy-P-dioxane-2-D-carboxyaldehyde. 3,317,535, 5-2-67, Cl. 260—256.4.

Alburn, Harvey E., and W. Dvonch, to American Home Products Corp. Purine carboxamides. 3,325,495, 6-13-67, Cl. 260—252.

Alburn, Harvey E., D. E. Clark, N. H. Grant, and P. B. Russell, to American Home Products Corp. 6-(1-amino-arylcyclo-(alkylcarboxamido)-penicillanic acids. 3,329,675, 7-4-67, Cl. 260—239.1.

Alburn, Harvey E., and N. H. Grant, to American Home Products Corp. Amino-acylamino-acylamino-penicillanic acids. 3,340,252, 9-5-67, Cl. 260—239.1.

Alburn, Harvey E., N. H. Grant, D. E. Clark, and M. Wolf, to American Home Products Corp. Dialkyl-oxo-diazaspiro penicillins. 3,351,587, 11-7-67, Cl. 260—239.1.

Albus, James S., 40% to R. M. Porter. Computer model teaching aid. 3,305,944, 2-28-67, Cl. 35—30.

Alcamo, Antonino. Dart-marking machine. 3,306,189, 2-28-67, Cl. 101—26.

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Vecchiarelli, Francis, Vasas, and Englund. 3,336,714.

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Alcock, Charles B., to United Kingdom Atomic Energy Authority. Determination of oxygen in fluids. 3,297,551, 1-10-67, Cl. 204—1.

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Aldeborgh, David H., to Standard Gage Co., Inc. Reference master for dial bore gages. 3,336,676, 8-22-67, Cl. 33—178.

Aldeborgh, David H., and E. M. Boat, to Standard Gage Co., Inc. Dial bore gage with retraction means. 3,316,650, 5-2-67, Cl. 33—178.

Alden, John B. Gate valves. 3,350,058, 10-31-67, Cl. 251—329.

Alden, John W., Jr., to Combustion Engineering Inc. Vertical steam generator with a central downcomer. 3,298,358, 1-17-67, Cl. 122—34.

Alden, Lars A. G. Crane boom. 3,532,441, 11-14-67, Cl. 214—130.

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Aldenhoff, Bernard J., to Harnischfeger Corp. Alternating current arc power source. 3,328,637, 6-27-67, Cl. 315—277.

Aldenhoff, Bernard J., to Harnischfeger Corp. Direct current power supply. 3,339,107, 8-29-67, Cl. 315—141.

Aldenhoff, Bernard J., to Harnischfeger Corp. Three phase half wave direct current power source. 3,345,552, 10-3-67, Cl. 321—5.

Aldenhoff, Bernard J., to Harnischfeger Corp. Polyphase rectifier circuit having means to vary the output voltage. 3,346,799, 10-10-67, Cl. 321—18.

Aldenkamp, Albertus A., to North American Philips Co., Inc. Method of manufacturing MnBi magnets. 3,317,358, 5-2-67, Cl. 148—105.

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Alderman, Orba O., to Melpar, Inc. Temperature compensation of tuning forks. 3,296,918, 1-10-67, Cl. 84—457.

Alderson, Edgar D., to General Electric Co. Louver actuation system. 3,335,960, 8-15-67, Cl. 239—265.27.

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Yeo, Alan A., Hambling, and Alderson. 3,331,884.

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Biel, John H., and Aiman. 3,310,567.
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Biel, John H., and Hopps. 3,350,403.
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Aldrich, Clare A., and J. F. Hill, to Midland-Ross Corp. Treating narrow passages with a fluid. 3,329,528, 7-4-67, Cl. 134—22.

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Aldridge, Clyde L.: *See*—
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Hunter, Edward A., Aldridge, Lambert, and Hillard. 3,301,810.
Rigney, James A., and Aldridge. 3,321,545.

Aldridge, Clyde L., to Esso Research and Engineering Co. Process for desulfurization employing K_2S. 3,354,081, 11-21-67, Cl. 208—235.

Aldridge, Gerald R., to E. I. du Pont de Nemours and Co. 1,5-bis(2-4-dichlorobenza-mido) - anthraquinone. 3,344,154, 9-26-67, Cl. 260—377.

Aldridge, Gerald R., E. E. Jaffe, and H. Matrick, to E. I. du Pont de Nemours, and Co. Quinolonoquinolone pigments and substituted derivatives thereof. 3,334,102, 8-1-67, Cl. 260—288.

Aldrin, Henry W., and E. B. Kindrot, to Bofors, Aktiebolaget. Launching assemblage for rocket missiles. 3,331,279, 7-18-67, Cl. 89—1.802.

Aldrin, Henry W., and E. B. Kindrot, to Aktiebolaget Bofors. Launching device. 3,340,768, 9-12-67, Cl. 89—1.815.

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Alesi, John, Jr., and J. A. 3,311,683.

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Alexakis, Nicholas G. Temperature compensated transistor and means for controlling. 3,358,152, 12-12-67, Cl. 307—88.5.

Alexander, Alex, and Y. Karabek, to Beteiligungs und Patentverwaltungsgesellschaft mit beschrankter Haftung. Converter, rotating in inclined position and capable of being tipped about a cross-axis. 3,310,297, 3-21-67, Cl. 266—36.

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Alexander, Bernard D., and M. J. Zucker, to American Radiator & Standard Sanitary Corp. Fuel feed control system responsive to flame color. 3,304,989, 2-21-67, Cl. 158—125.

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Alexander, Donald F.: *See*—
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Alexander, Donald F., to General Motors Corp. Domestic appliance. 3,353,004, 11-14-67, Cl. 219—398.

Alexander, Douglas S., and J. Firko, to Polymer Corp. Ltd. Dehydrogenation process. 3,315,006, 4-18-67, Cl. 260—680.

Alexander, Earl L., and B. H. Minnich, to North American Aviation, Inc. Rocket motor. 3,302,405, 2-7-67, Cl. 60—254.

Alexander, Ernest J.: *See*—
Aceto, Mario D., Harris, Lands, and Alexander. 3,328,249.

Alexander, Ezra M.: *See*—
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Searight, Charles E., Alexander, and Ryan. 3,337,483.

Alexander, Fred C., to Universal Rundle Corp. Flow-adjusting tilting flush valve. 3,325,828, 6-20-67, Cl. 4—60.

Alexander, Guy B., S. F. West, and P. C. Yates, to E. I. du Pont de Nemours and Co. Process of making metal powder compositions wherein some metal grains contain dispersed refractory metal oxide particles. 3,310,400, 3-21-67, Cl. 75—206.

Alexander, Guy B., R. E. Stuart, and S. F. West, to E. I. du Pont de Nemours and Co. Composition comprising iron-group metal and particulate refractory metal oxide. 3,317,285, 5-2-67, Cl. 29—182.5.

Alexander, Guy B., and G. W. Sears, Jr., to E. I. du Pont de Nemours and Co. Thorium oxide sol. 3,317,432, 5-2-67, Cl. 252—301.1.

Alexander, Guy B., R. E. Stuart, and S. F. West, to E. I. du Pont de Nemours and Co. Process of dispersion-hardening of iron-group base metals. 3,326,677, 6-20-67, Cl. 75—206.

Alexander, Hugh C., 50% to P. J. Sutton. Toy hoop having a movable weight member. 3,332,166, 7-25-67, Cl. 46—220.

Alexander, Hugh C. Manifold checkbook with self-recording register. 3,333,869, 8-1-67, Cl. 282—24.

Alexander, Jack F., and P. E. Morris, to Ortronix, Inc. Universal repeater. 3,355,549, 11-28-67, Cl. 178—70.

Alexander, John B. Centrifugal-vortex refrigeration system. 3,332,253, 7-25-67, Cl. 62—499.

Alexander, John D.: *See*—
Powers, Maston L., Martin, Alexander, and Willhite. 3,324,948.

Alexander, John D., to Miehle-Goss Dexter, Inc. Mechanism for transferring cylindrical articles. 3,330,400, 7-11-67, Cl. 198—22.

Alexander, John M., Jr., to Pennsalt Chemicals Corp. Tablet press. 3,337,915, 8-29-67, Cl. 18—16.5.

Alexander, L. Bruce, to Automatic Machinery and Electronics, Inc. Juice extraction apparatus with pulp-peel separator. 3,351,000, 11-7-67, Cl. 100—98.

Alexander, Laurence R.: *See*—
Wallack, Stanley, Alexander, and Oxley. 3,351,015.

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Alexander, Marvin H. Automotive heat pump. 3,304,735, 2-21-67, Cl. 62—160.

Alexander, Michael P., to General Motors Corp. Article transfer mechanism. 3,295,701, 1-3-67, Cl. 214—1.

Alexander, Norman P.: *See*—
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Alexander, Richard B., to National Tile & Mfg. Co. Method and apparatus for handling placing tile bodies in precise locations. 3,349,541, 10-31-67, Cl. 53—55.

Alexander, Richard L., H. D. Lyons, F. E. Brown, and R. A. Long, to Gulf Oil Corp. Polyethylene process. 3,349,072, 10-24-67, Cl. 260—94.9.

Alexander, Richard L., and F. E. Brown, to Gulf Oil Corp. Polyethylene compositions. 3,352,819, 11-14-67, Cl. 260—45.9.

Alexander, Robert H., to Rockwell Mfg. Co. Servo operated reversing tool. 3,298,284, 1-17-67, Cl. 91—58.

Alexander, Robert H., to Rockwell Mfg. Co. Spindle lock for a power tool. 3,334,448, 8-8-67, Cl. 51—170.

Alexander, Robert H., to Rockwell Mfg. Co. Fluid operated tool. 3,336,840, 8-22-67, Cl. 91—38.

Alexander, Robert H., and L. R. Wanner, to Sylvania Electric Products Inc Pre-heating process. 3,320,397, 5-16-67, Cl. 219—10.69.

Alexander, Roy P., and H. A. Schroeder, to Olin Mathieson Chemical Corp. Novel polymers from condensation of dimeric azidophospha (III)-carborane and diphosphine. 3,320,185, 5-15-67, Cl. 260—2.

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Alexander, Stephen H., and S. R. Montgomery, to Monsanto Co. Polyester resin modified bituminous compositions. 3,349,051, 10-24-67, Cl. 260—28.5.

Alexander, Velda, to V. Alexander, L. E. Melvin, and C. M. Feaner. Arms and ammunition handbag. 3,347,299, 10-17-67, Cl. 150—34.

Alexander, Wayne D., to Allied Chemical Corp. Method for splicing multi-ply twisted cords. 3,315,458, 4-25-67, Cl. 57—159.

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Alexander, Wm. G.: *See*—
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Alexandersson, Harald V., to Telefonaktiebolaget L M Ericsson. Relay matrix comprising polarized relays. 3,311,857, 3-28-67, Cl. 335—107.

Alexandersson, Sven V., to Telefonaktiebolaget L. M. Ericsson. Resistor component and resistor comprising several such resistor components. 3,355,691, 11-28-67, Cl. 338—47.

Alexandrescu, Alexander M. Hydraulic coupling. 3,327,478, 6-27-67, Cl. 60—54.

Alexeff, Alexander V., to Industrial Ovens, Inc. Splicing method and apparatus. 3,299,843, 1-24-67, Cl. 112—262.

Alexeff, Alexander V., to Industrial Ovens, Inc. Deflection and displacement minimizing double-shell rolls. 3,336,648, 8-22-67, Cl. 29—113.

Alexeff, Alexander V., to Industrial Ovens, Inc. Radial type tire. 3,336,964, 8-22-67, Cl. 152—356.

Alexeff, Alexander V., and M. Zobenica, to Industrial Ovens, Inc. Vapor tight thermal insulating door. 3,299,574, 1-24-67, Cl. 49—401.

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Alfandari, Roger S., R. Pauchard, and G. Pircher, to Compagnie Francaise Thomson Houston-Hotchkiss Brandt. Coupler for waveguides utilizing ferrimagnetic material for mode conversion. 3,321,718, 5-23-67, Cl. 333—21.

Alfano, Louis R., Sr. Life saving device. 3,330,588, 7-11-67, Cl. 294—16.

Alfano, William A., Jr., to Granger Associates. Steerable monopole antenna system having a plurality of reflectors, said reflectors comprising a series of tubular vacuum switches. 3,334,348, 8-1-67, Cl. 343—836.

Alfieri Giuseppe, and R. Moriondo, to Fabbrica Italiana Magneti Marelli S.p.A. Device for commutatively creating shut-off members for fluids in general particularly for reciprocating motors. 3,307,580, 3-7-67, Cl. 137—624.18.

Alfieri, Giuseppe, and R. Moriondo, to Fabbrica Italiana Magneti Marelli S.p.A. Device for rendering independent vehicle pneumatic suspensions controlled by levellers. 3,342,503, 9-19-67, Cl. 280—6.1.

Alfille, Lucien, J. C. Charrault, and F. Lafontaine, to European Atomic Energy Community. Tubular fuel pencil having a thin flexible can for nuclear reactors. 3,308,033, 3-7-67, Cl. 176—72.

Alfille, Lucien, J.-C. Charrault, and F. Lafointaine, to European Atomic Energy Community (Euratom). Fuel pencils having a thin flexible can for nuclear reactors. 3,309,283, 3-14-67, Cl. 176—72.

Alford, Andrew. Transfer characteristic measuring employing substantially constant impedance constant amplitude for driving and terminating input branch. 3,305,775, 2-21-67, Cl. 324—57.

Alford, Andrew. High frequency techniques for measuring reflected energy. 3,309,608, 3-14-67, Cl. 324—58.

Alford, Andrew. Amplitude of H.F. oscillator stabilized by rectified output of L.F. osc. 3,344,364, 9-26-67, Cl. 331—86.

Alford, Charles H., to Lockheed Aircraft Corp. Tunnel diode inverter circuit. 3,324,308, 6-6-67, Cl. 307—88.5.

Alford, Harvey E., and F. Veatch, to The Standard Oil Co. Plastic structure containing fibrous layers and hollow glass spheres. 3,316,139, 4-27-67, Cl. 161—72.

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Alfrey, Turner, Jr., and W. G. Lloyd, to The Dow Chemical Co. Preparation of porous structures. 3,322,695, 5-30-67, Cl. 260—2.5.

Algar, Leslie E., and K. G. Cook, to The M-O Valve Co. Ltd. Electric discharge devices. 3,317,777, 5-2-67, Cl. 313—182.

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Algeo, Jerry A., to North American Aviation, Inc. Slot antenna utilizing variable standing wave pattern for controlling slot excitation. 3,328,800, 6-27-67, Cl. 343—768.

Algeo, Jerry A., to North American Aviation, Inc. Microwave antenna having a controlled phase distribution. 3,355,738, 11-28-67, Cl. 343—779.

Alger, Trygve O., to Harrel, Inc. Magnetic amplifier. 3,337,811, 8-22-67, Cl. 330—8.

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Algieri, Salvatore, to Montecatini Edison S.p.A. Polyolefin stabilized with a salt of a piperazine-alkanoic acid. 3,356,642, 12-5-67, Cl. 260—45.75.

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Alheim, Robert J., and C. Savides, to American Cyanamid Co. Stabilized polyolefin composition containing a mixture of dilauryl, distearyl and lauryl stearyl thiodipropionates. 3,344,113, 9-26-67, Cl. 260—45.85.

Alheritiere, Louis, to Les Usines de Melle (Societe Anonyme). Purification of high boiling esters from alcohol by distillation under pressure. 3,328,269, 6-27-67, Cl. 203—92.

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Heiss, Harvey, and Braun. 3,304,085.

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Tennies, James O., Mead, and Allaben. 3,320,007.

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Allais, Andre, and J. Meier, to Roussel-UCLAF. Hexahydrobenzyl carbonate ester of testosterone. 3,314,856, 4-18-67, Cl. 167—74.

Allais, Andre, and P. Girault, to Roussel-UCLAF. Novel benzamidines. 3,314,979, 4-18-67, Cl. 260—397.7.

Allais, André, and M. Paturet, to Roussel-Uclaf. Therapeutic compositions comprising 21-dicyclohexylmethyl carbonate esters of pregnane derivatives. 3,329,570, 7-4-67, Cl. 167—65.

Allan, Donald R., to Mattel, Inc. Machine for processing stranded material. 3,298,165, 1-17-67, Cl. 57—34.

Allan, Gust. Garment fastener. 3,331,110, 7-18-67, Cl. 24—258.

Allan, John L. II., to Imperial Chemical Industries Ltd. Thermohardening resin compositions comprising dihydropyran derivatives and amine aldehyde condensates. 3,316,325, 4-25-67, Cl. 260—856.

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Allan, Morris, and M. Berman, to Aaronson Bros. Ltd. Methods of producing sheets of wood veneer and the sheets of wood veneer so produced. 3,312,582, 4-4-67, Cl. 161—37.

Allan, Stewart, and W. C. Weidner, to Union Carbide Corp. Self-sizing thermochemical scarfing. 3,300,200, 1-24-67, Cl. 266—23.

Allan, William H., to W. H. Miner Inc. Method and apparatus for lubricating friction draft gear. 3,348,633, 10-24-67, Cl. 184—1.

Allard, Adrien, to Societe a Responsabilite Limitee, Allard & Fils. Assembly of elements of a packing-box of corrugated cardboard or similar deformable material. 3,306,520, 2-28-67, Cl. 229—45.

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Allcock, Harry R., to American Cyanamid Co. Phosphonitrillic halide derivatives and adducts thereof. 3,356,769, 12-5-67, Cl. 260—927.

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Allcock, Harry R., and L. A. Siegel, to American Cyanamid Co. Molecular inclusion adducts of phosphonitrilic halide trimer derivatives. 3,356,768, 12-5-67, Cl. 260—927.

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Alleaume, Jean, to Technigaz. Folded corrugated sheet-like corner piece. 3,321,881, 5-30-67, Cl. 52—276.

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Allen, Clifford W., to Westinghouse Air Brake Co. Solenoid actuated valve with manual over-ride. 3,332,445, 7-25-67, Cl. 137—627.5.

Allen, David L., to Able Building Co. Safety retaining belt for shopping carts. 3,306,661, 2-28-67, Cl. 297—385.

Allen, David L., 25% to P. Daniels, and 25% to G. Stoll. Safety retaining belt for shopping carts. 3,350,136, 10-31-67, Cl. 297—388.

Allen, Derek R., to Allen Medical Instrument Corp. Multipurpose neurological diagnostic instrument. 3,344,781, 10-3-67, Cl. 128—2.

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Allen, Edward L., to Ingersoll-Rand Co. Wire wrapper. 3,315,711, 4-25-67, Cl. 140—112.

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Allen, Herbert, to Cameron Iron Works, Inc. Pipe hanging apparatus. 3,329,448, 7-4-67, Cl. 285—147.

Allen, Herbert, to Cameron Iron Works, Inc. Hydraulic ram assembly for a forging press. 3,333,457, 8-1-67, Cl. 72—453.

Allen, Herbert, to Cameron Iron Works, Inc. Valve. 3,346,234, 10-10-67, Cl. 251—174.

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Allen, James O. Ink roll cleaning attachment. 3,295,442, 1-3-67, Cl. 101—349.

Allen, Jesse O. Variable valves. 3,349,798, 10-31-67, Cl. 137—625.17.

Allen, John, and D. Taylor, to United Kingdom Atomic Energy Authority. Heat exchangers. 3,354,869, 11-28-67, Cl. 122—32.

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Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Vibrated flow control valve and weigher. 3,308,898, 3-14-67, Cl. 177—64.

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Allen, Robert J., to Ex-Cell-O Corp. Filler for charging containers. 3,334,668, 8-8-67, Cl. 141—292.

Allen, Robert J., C. Z. Monroe, J. F. Earp, and H. B. Eglesston, to Ex-Cell-O Corp. Machine for fabricating containers. 3,347,017, 10-17-67, Cl. 53—379.

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Weed, William H., and Price. 3,357,801.
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Allin, George S., Sr., to Northwest Engineering Corp. Lattice boom construction. 3,323,660, 6–6–67, Cl. 212—144.

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Allingham, Walter F., to Honeywell, Inc. Control apparatus. 3,351,085, 11–7–67, Cl. 137—495.

Allinquant, Fernand S. Damping device applicable especially to suspensions having automatic height correction. 3,306,599, 2–28–67, Cl. 267—64.

Alliot-Lugaz, Maurice, and P. Allard, to Societe Rhodiaceta. Polypropylene or polyester compositions of improved dyeability containing a linear polyamide and a linear sulfonated polyamide. 3,328,484, 6–27–67, Cl. 260—857.

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Almerini, Achille L., and H. R. Knapp, to United States of America, Army. Ammonia cell. 3,309,230, 3–14–67, Cl. 136—90.

Almirante, Luigi, W. Murmann, and L. Friz, to Laboratorio Bioterapico Milanese Selvi & C. S.a.s. Novel 1,2-*a*-imidazopyridines and a process for the manufacture thereof. 3,318,880, 5–9–67, Cl. 260—247.7.

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Alper, Allen M., and R. N. McNally, to Corhart Refractories Co., Inc. M_2O-B_2O_3 fused cast refractory. 3,337,353, 8–22–67, Cl. 106—58.

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Alper, Allen M., R. C. Doman, and R. N. McNally, to Corning Glass Works. Fused cast refractory. 3,340,077, 9–5–67, Cl. 106—56.

Alper, Allen M., R. C. Doman, and R. N. McNally, to Corning Glass Works. Fused refractory castings. 3,340,078, 9–5–67, Cl. 106—56.

Alper, Allen M., and R. C. Doman, to Corhart Refractories Co. Refractory with periclase-based stabilized solid solution. 3,342,616, 9–19–67, Cl. 106—59.

Alper, Stanley, to General Electric Co. Multiple engine control. 3,299,630, 1–24–67, Cl. 60—39.15.

Alpers, Frederick C., to United States of America, Navy. Simple form of probe antenna noise cancellation system. 3,296,619, 1–3–67, Cl. 343—120.

Alpert, Abrahaiu. Merchandise support device. 3,317,056, 5–2–67, Cl. 211—176.

Alpert, Norman, M. Felcheck, and R. Townsend, to American Machine & Foundry Co. Business accounting system and machine and electronic controls therefor. 3,330,947, 7–11–67, Cl. 235—176.

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Brand, Eugene L. 3,345,778.
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Alsobrooks, Darriel L., to Michigan Dynamics, Inc. Centrifugal purifier. 3,347,380, 10–17–67, Cl. 210—130.

Alsop, Charles R., and R. M. Semple, to Simon-Carves Ltd. Apparatus for the aeration of liquids. Re. 26,194, 4–18–67, Cl. 259—107.

Alsop, James F., to Davy and United Engineering Co. Ltd. Transfer means. 3,302,772, 2–7–67, Cl. 198—221.

Alsop, Ranulph M., to Fisons Pharmaceuticals Ltd. Aerosol applicators. 3,302,834, 2–7–67, Cl. 222—162.

Alspaugh, Samuel W., to General Motors Corp. Safety stop block. 3,333,447, 8–1–67, Cl. 72—31.

Alster, David I., and A. M. Wolf, to Electrospace Corp. Electromagnetic display device. 3,309,696, 3–14–67, Cl. 340—373.

Alston, Russell M., and C. R. Sharp, to Rain Bird Sprinkler Mfg. Corp. Automatic control for sprinkler systems. 3,309,543, 3–14–67, Cl. 307—141.4.

Alsys, Clarence M. Tee-Pak, Inc. Dispensing carton of shirred sausage casings. 3,321,072, 5–23–67, Cl. 206—46.

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Alter, Henry W., and C. R. Anderson, to General Electric Co. Irradiated nuclear fuel recovery. 3,359,078, 12–19–67, Cl. 23—326.

Altermatt, Hans, to Ciba Ltd. Vat dyestuffs containing anthraquinone nuclei. 3,337,553, 8–22–67, Cl. 260—256.5.

Altermatt, Hans, to Ciba Ltd. Anthraquinone vat dyestuffs. 3,337,582, 8–22–67, Cl. 260—316.

Altermatt, Hans, to Ciba Ltd. Anthraquinone dyestuffs. 3,338,904, 8–29–67, Cl. 260—272.

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Altermatt, Rudolf: *See*—
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Alterwitz, Melvin. Chilled beverage dispensing system. 3,327,902, 6–27–67, Cl. 222—108.

Alting-Mees, Hemmo R., to Westinghouse Electric Corp. Target assembly comprising insulating target, field and collector meshes. 3,303,373, 2–7–67, Cl. 313—65.

Altman, Frank, Jr., to The Eagle-Picher Co. Flexible plastic bag package. 3,338,398, 8–29–67, Cl. 206—57.

Altman, George I.: *See*—
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Altman, Gerald. Photographic documentary storage process and apparatus. 3,324,764, 6–13–67, Cl. 88—24.

Altman, Gerald. Process for producing images by episcopic projection utilizing directive illumination. 3,331,688, 7–18–67, Cl. 96—27.

Altman, Mary J. W. N.: *See*—
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Altman, Russell S., deceased, by G. I. and M. J. W. N. Altman, co-executors. Method of cooking grain in a closed system. Re. 26,257, 8–29–67, Cl. 99—80.

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Elmer Jack T., and Altmann. 3,333,972.

Altmann, Werner E., K. Enke, and A. F. Rothweiler, to Daimler-Benz Aktiengesellschaft. Sliding joint. 3,298,200, 1–17–67, Cl. 64—21.

Altmeppen, Johannes, and H. Hinrichs, to Westinghouse Bremsen- und Apparatebau, G.m.b.H. Flow control valve device. 3,338,263, 8–29–67, Cl. 137—493.7.

Altmeyer, John, to New-Tronics, Inc. Extensible dipole with adjustable loading coils. 3,327,311, 6–20–67, Cl. 343—750.

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Altonji, Edmund R., to International Telephone and Telegraph Corp. Pulse code modulation encoding and decoding apparatus. 3,320,534, 5–16–67, Cl. 325—38.

Altonji, John A., and J. G. Valana, to Potter Instrument Co., Inc. Adjustable quick-release mechanism for print drum. 3,347,159, 10–17–67, Cl. 101—93.

Altorfer, Hans. Bedstead. 3,300,794, 1–31–67, Cl. 5—68.

Altosaar, Heino, to Dominion Tar & Chemical Co., Ltd. Axial feed waferizer. 3,304,970, 2–21–67, Cl. 144—162.

Altscher, Siegfried, and M. N. Schneider, to Nopco Chemical Co. Polyester-polyisocyanate materials and coatings obtained therefrom. 3,304,286, 2–14–67, Cl. 260—47.

Altselmer, John H., to Aerojet-General Corp. Rocket nozzle with automatically adjustable auxiliary nozzle portion. 3,358,933, 12–19–67, Cl. 239—265.43.

Altson, Ralph, to General Motors Corp. Roller bearing cage. 3,356,428, 12–5–67, Cl. 308—217.

Alul, Husni R., S. G. Clark, and G. J. McEwan, to Monsanto Co. Alkyl aryl process. 3,349,144, 10–24–67, Cl. 260—671.

Alumasc Ltd.: *See*—
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Alumiline Corp., The: *See*—
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Brown, Melvin H., Lifka, and Pitts. 3,333,989.
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Alvarez, Francisco, to Syntex Corp. Process for the preparation of uncontaminated 17α-ethynyl-19-nor-Δ^4-androsten-17β-ol-3-one. 3,299,106, 1–17–67, Cl. 260—397.4.

Alvarez, Francisco, to Syntex Corp. Process for preparation of 19-nor-$\Delta^{5(10)}$-androstene-3,17-dione and 19-nor-Δ^4-androstene-3,17-dione. 3,301,877, 1–31–67, Cl. 260—397.3.

Alvarez, Francisco, to Syntex Corp. Process for the preparation of $\Delta^{1,3,5(10)}$-trienes and 3-keto-6-oxygenated-$\Delta^{5(10)}$-dehydro intermediates thereof. 3,318,923, 5–9–67, Cl. 260—397.4.

Alvarez, Francisco, J. B. Siddall, and A. Ruiz, to Syntex Corp. Process for the hydrolysis of cyclic acetals and ketals. 3,338,926, 8–29–67, Cl. 260—397.4.

Alvarez, Francisco, J. B. Siddall, and A. Ruiz, to Syntex Corp. Process for the hydrolysis of bismethylenedioxy derivatives. 3,338,930, 8–29–67, Cl. 260—397.45.

Alvarez, Luis W., to Optical Research and Development. Optical range finder with variable-angle exponential prism. 3,299,768, 1–24–67, Cl. 88—2.4.

Alvarez, Luis W., to Optical Research and Development Corp. Two-element variable-power spherical lens. 3,305,294, 2–21–67, Cl. 351—169.

Alvarez-Calderon, Alberto. Flap actuator. 3,333,791, 8–1–67, Cl. 244—42.

Alvarez-Calderon, Alberto. Actuator for variable span wing. 3,333,792, 8–1–67, Cl. 244—43.

Alvden, Bror R. J. H., to Aktiebolaget Gotaverken. Means for releasable connection of building elements. 3,339,954, 9–5–67, Cl. 287—189.36.

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Alvey, Francis B., to Celanese Coatings Co. Epoxide resin process. 3,350,353, 10–31–67, Cl. 260—47.

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Alzner, Bernard G., and O. E. H. Klopfer, to Ethyl Corp. Cellular plastic compositions. 3,338,845, 8–29–67, Cl. 260—2.5.

Amacher, Arthur W. Automatic headlight dimming system for interrupting the connection of the voltage source to the bright filaments only. 3,325,680, 6–13–67, Cl. 315—82.

Amada, Sanae, R. Kawano, M. Arakawa, and H. Iwano, to Fujitsu Ltd., and Kurosawa Tele-Communications Ltd. Typewriter with typewheel and hammer mounted on movable carriage. 3,353,648, 11–21–67, Cl. 197—55.

Amagasa, Masataka, T. Yamaguchi, and M. Tanaka. Process for the preparation of conjugated cyclohexadienes. 3,326,991, 6–20–67, Cl. 260—666.

Amagasa, Masataka, and T. Yamaguchi, to Chiyoda Kakokensetsu Kabushiki Kaisha. Process for the production of polyalkylcyclohexenes and polyalkylbenzenes. 3,346,654, 10–10–67, Cl. 260—666.

Amagasa, Masataka, T. Yamaguchi, and Y. Saito, to Chiyoda Kakokensetsu Kabushiki Kaisha. Process for the preparation of cyclohexene and alkyl-substituted cyclohexenes. 3,359,339, 12–19–67, Cl. 260—666.

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Amann, Herbert, and E. Bäder, to Deutsche Gold- und Silber-Scheideanstalt vormals Roesler. Production of shaped polyamide structures of improved properties using amides, sulfoxides or sulfones. 3,359,227, 12–19–67, Cl. 260—30.8.

Amano, Masahiro, and H. Ohye, to Mitsubishi Paper Mill, Ltd. Method for preparing pressure-sensitive filler-containing copying paper and paper thereof. 3,330,722, 7–11–67, Cl. 162—181.

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Amborski, Leonard E., and W. P. Welsenberger, to E. I. du Pont de Nemours and Co. Cellular polyamide product. 3,310,506, 3–21–67, Cl. 260—2.5.

Ambos, Henry F., and H. R. Letchworth, to Seafoods Automation Corp. Apparatus for processing shrimp. 3,310,832, 3–28–67, Cl. 17—2.

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Amdahl, Gene M., R. J. Carnevale, A. F. Collins, E. R. Marsh, and A. E. Villante, to International Business Machines Corp. Storage protection systems. 3,328,768, 6–27–67, Cl. 340—172.5.

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Amemiya, Hiroshi, T. R. Mayhew, and R. L. Pryor, to Radio Corp. of America. Midpoint conductor drive and sense in a magnetic memory. 3,319,233, 5–9–67, Cl. 340—174.

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Dunster, William E., Jr. 3,332,274.
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Amery, George B., to Esso Production Research Co. Individual trace corrector for shifting traces on a record. 3,301,-124, 1–31–67, Cl. 88—14.
Ames, Alvin G. Pendulum game. 3,312,470, 4–4–67, Cl. 273—95.
Ames, B. C., Co.: *See*—
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Ames, Geoffrey R., to United States of America, Agriculture. Surface active compositions containing mixtures of mono and di-alkyloxymethyl ethers of sugar. 3,300,413, 1–24–67, Cl. 252—351.
Ames, Geoffrey R., to United States of America, Agriculture. Process for the production of ethers of organic polyhydroxy compounds. 3,314,936, 4–18–67, Cl. 260—209.
Ames, Irving, and H. L. Caswell, to International Business Machines Corp. Hermetic seal for planar transistors and method. 3,350,222, 10–31–67, Cl. 117—212.
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Kelly, Patrick M., Ames, and Somerville. 3,330,797.
Ames, Ray W., Jr., J. Barnes, and P. J. Kreppel, to Bell Aerospace Corp. Data-link system. 3,327,055, 6–20–67, Cl. 178—50.
Ames, Robert G., to Ames Taping Tool Systems Mfg. Co. Metal stud and panel. 3,312,032, 4–4–67, Cl. 52—580.
Ames, Robert G., to Ames Taping Tool Systems Mfg. Co. Swingable arcuate trowelling blade for mastic applicator. 3,343,202, 9–26–67, Cl. 15—395.
Ames, Stuart L., F. A. Malagari, Jr., and J. R. Conner, Jr., to Allegheny Ludlum Steel Corp. Coating for the protection of ferrous base alloys at elevated temperatures. 3,301,702, 1–31–67, Cl. 117—135.1.
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Ames, Robert G. 3,343,202.
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Ames, Victor H., and R. T. Fischer, to Whiting Corp. Industrial brake. 3,348,639, 10–24–67, Cl. 188—171.
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Amodei, Juan J., to Radio Corp. of America. Electrical circuit. 3,321,640, 5–23–67, Cl. 307—88.5.
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Coleman, Charles H., Jr., Felix, and Jensen. 3,316,360.
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Anderau, Walter, and R. Mory, to Ciba Ltd. Application of dyestuff bleaching catalysts in the silver dyestuff bleaching process. 3,318,700, 5–9–67, Cl. 96—53.

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Anders, Bertram, E. Kuhle, and H. Malz, to Farbenfabriken Bayer Aktiengesellschaft. Phosphorus isocyanide dichloride compounds. 3,328,495, 6–27–67, Cl. 260—959.

Anders, Bertram, E. Kuhle, and K. Dickore, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of sulphonyl isocyanide dichlorides. 3,299,134, 1–17–67, Cl. 260—556.

Anders, Edwin E. Garbage can holder. 3,313,423, 4–11–67, Cl. 211—71.

Anders, Gerhard, to Hamac-Hansella Aktiengesellschaft. Apparatus for continuous preparation of a solution containing milk, fat and sugar. 3,322,402, 5–30–67, Cl. 259—6.

Anders, Gerhard, to Hamac-Hansella Aktiengesellschaft. Apparatus for continuous treatment of kneadable material. 3,335,676, 8–15–67, Cl. 107—4.

Anders, Robert H.: *See*—
Neale, Colin G., Anders, and Beyreis. 3,336,071.

Anders, Walter G., to Diebold, Inc. Mechanized power file construction. 3,321,260, 5–23–67, Cl. 312—168.

Andersen, Andrew W. Sand spike holder for fishing rods. 3,359,869, 9–5–67, Cl. 248—48.

Andersen, Andrew W. Tiltable holder and dispenser. 3,352,-614, 11–14–67, Cl. 312—42.

Andersen, Clifford W., to Wurlitzer Co. Method of applying resilient felts to the opposite sidewall portions of a slot. 3,305,425, 2–21–67, Cl. 156—293.

Andersen Corp.: *See*—
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Andersen, Eli F., and L. H. Rohde, to The West Co. Container closure. 3,314,564, 4–18–67, Cl. 215—7.

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Petschauer, Richard J., and Andersen. 3,343,130.

Andersen, Hans C., to Ultrasona AG. Apparatus for the treatment of textile goods. 3,343,381, 9–26–67, Cl. 68—9.

Andersen, Harry M., H. P. Holladay, and J. H. Johnson, to Monsanto Co. Processes for sulfur curing ethylene/vinyl chloride copolymers. 3,356,658, 12–5–67, Cl. 260—79.5.

Andersen, Johan R., to Bell Telephone Laboratories, Inc. Bearing structure. 3,359,047, 12–19–67, Cl. 308—36.

Andersen, Jon B., to Byron Jackson Inc. Apparatus for removing caked material from a container. 3,358,935, 12–19–67. Cl. 239—589.

Andersen, Obel F. E., to Eric Schaumburg. Magnetically operated fluid control valve. 3,355,140, 11–28–67, Cl. 251—65.

Andersen, Poul, to Allegheny Ludlum Steel Corp. Steering and control device. 3,313,461, 4–11–67, Cl. 226—20.

Andersen, Peter M., and F. Kuyt, to Bausch & Lomb Inc. Chart roll spindle. 3,321,149, 5–23–67, Cl. 242—74.

Andersen, Ralph V. Audio visual teaching device. 3,350,792, 11–7–67, Cl. 35—8.

Andersen, Robert A., and R. E. Cooley, to Hewlett-Packard Co. Integrating converter. 3,296,613, 1–3–67, Cl. 340—347.

Andersen, Robert K. Horseshoe game apparatus and shoe-returning and stacking mechanisms therefor. 3,326,556, 6–20–67. Cl. 273—103.

Anderskow, Juel U., and F. S. Lewis. Corrugated carton box. 3,313,467, 4–11–67, Cl. 229—37.

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Kennard, Kenneth C., and Anderson. 3,300,310.
Kennard, Kenneth C., and Anderson. 3,300,311.

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Anderson, Arthur I., and K. F. Sollmar, to Butler Mfg. Co. Hopper arrangement for pneumatically unloadable containers. 3,343,888, 9–26–67, Cl. 302—52.

Anderson, Arthur R., T. M. Stickney, and D. W. Gordon, to Cook Electric Co. High temperature measuring devices. 3,308,666, 3–14–67, Cl. 73—362.

Anderson, Arthur W., and L. R. Perkins, to E. I. du Pont de Nemours and Co. Polyfluorocarbon substrate coated with polyamide and method. 3,352,714, 11–14–67, Cl. 117—213.

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Mucci, Ralph L., and Anderson. 3,350,919.

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Davis, Harvey L., Schultz, and Anderson. 3,341,954.
Schultz, Roy M., Davis, and Anderson. 3,321,853.

Anderson, Arvid B., H. L. Davis, and R. M. Schultz, to Bishop Freeman Co. Resilient press cover assembly. 3,321,852. 5–30–67. Cl. 38—66.

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Anderson, Carl W. Combination mower and dispenser. 3,359,-710, 12–26–67, Cl. 56—25.4.

Anderson, Charles. Band saw for butchering meat. 3,295,-400, 1–3–67, Cl. 83—661.

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Anderson, Chester A., Jr., and L. P. Cote, to Pratt & Whitney, Inc. Core bit. 3,331,455, 7–18–67, Cl. 175—403.

Anderson, Clarence A., to The Detroit Edison Co. Electric broiler heating element. 3,342,977, 9–19–67, Cl. 219—548.

Anderson, Claron E., G. P. Bayle, and J. T. Nishimi, to North American Aviation, Inc. Terrain avoidance system. 3,360,794, 12–26–67, Cl. 343—7.

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Anderson, Daniel G., and S. Selman, to E. I. du Pont de Nemours and Co. Perfluorodivinyl ether. 3,326,984, 6–20–67, Cl. 260—614.

Anderson, Daniel J., to P. R Mallory & Co., Inc. Method of anodically etching aluminum foils at elevated temperatures in an electrolyte including chloride and sulfate ions. 3,321,-389, 5–23–67, Cl. 204—141.

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Anderson, Dean B., to North American Aviation, Inc. Monopulse data system. 3,353,180. 11–14–67, Cl. 343—16.

Anderson, Dean M., and J. V. Callsher, to E. B. Wiggins, Inc. Quick connect valved coupling. 3,336,944, 8–22–67, Cl. 137—614.04.

Anderson, Donald F., to Minnesota Mining and Mfg. Co. Copying machine. 3,318,219, 5–9–67. Cl. 95—73.

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Anderson, Donald J., to Chevron Research Co. Substituted pyrrolidinones as lubricating oil additives. 3,301,784, 1–31–67, Cl. 252—51.5.

Anderson, Donald J., to Chevron Research Co. High molecular weight aliphatic sulfamides of alkylene polyamines and polyalkylene polyamines. 3,328,297, 6–27–67, Cl. 252—32.7.

Anderson, Donald J., to Kimberly-Clark Corp. Oil collector and projecting magnetic retention means therefor. 3,354,-989, 11–28–67. Cl. 184—106.

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Anderson, Douglas D. Mascara applicator. 3,343,551, 9–26–67. Cl. 132—88.7.

Anderson, Douglas G. Apparatus for generating a function by cubic interpolation. 3,311,742, 3–28–67, Cl. 235—197.

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Anderson, Duane B., and J. L. Lummus, to Pan American Petroleum Corp. Low solids salt water drilling fluids. 3,360,-461, 12–26–67, Cl. 252—8.5.

Anderson, Duane H., R. T. McArdell, and R. W. Notto, to Sperry Rand Corp. Data processing system. 3,345,619, 10–3–67, Cl. 340—172.5.

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Anderson, Edgar L., to Ritter Pfaudler Corp. Accessory clamping structure for surgical tables. 3,339,913, 9–5–67, Cl. 269—328.

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Surber, John L., J. L. Surber, Jr., and Anderson. 3,342,-394.

Anderson, Edward P., to Engelhard Industries, Inc. Cathodic protection and anti-marine fouling electrode system. 3,303,118, 2–7–67, Cl. 204—196.

Anderson, Edward P., and S. P. Crago, to Engelhard Industries, Inc. Anode for cathodic protection system. 3,342,716, 9–19–67, Cl. 204—196.

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Anderson, George F., to Aerojet-General Corp. Laminated rotor member for dynamoelectric machine of axial air gap type. 3,329,843, 7–4–67, Cl. 310—168.

Anderson, George J., and C. R. Williams, to Monsanto Co. Emulsion latex containing partial amide of styrene-maleic anhydride copolymer as emulsifier. 3,297,620, 1–10–67, Cl. 260—29.6.

Anderson, George M., S. S. Jaffe, and M. D. Bowers, to McGraw-Edison Co. Method of externally determining discharge capability of a battery with a metal electrode. 3,359,494, 12–19–67, Cl. 324—29.5.

Anderson, George W. Hair treatment cap for selectively treating locks of hair. 3,304,945, 2–21–67, Cl. 132—9.

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Anderson, George W., and F. M. Callahan, to American Cyanamid Co. Tertiary butyl group as a carboxyl protecting group in the synthesis of peptides. 3,325,466, 6–13–67, Cl. 260—112.5.

Anderson, George W., J. A. Aseltine, and G. R. Cooper, to Ford Motor Co. Apparatus for measuring dynamic characteristics of systems by cross correlation. 3,354,297, 11–21–67, Cl. 235—181.

Anderson, George W., J. R. Harder, and R. A. Mahaffy, to Mahaffy & Harder Engineering Co. Packaging apparatus with improved product loader. 3,354,613, 11–28–67, Cl. 53—251.

Anderson, Gerald R.: *See*—
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Anderson, Gerald R., to FMC Corp. Fruit preparation machine. 3,305,071, 2–21–67, Cl. 198—33.

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Anderson, Gerald R., to FMC Corp. Fruit stemming and coring machine. 3,324,913, 6–13–67, Cl. 146—52.

Anderson, Gerald R., to FMC Corp. Single article feeder. 3,340,-994, 9–12–67, Cl. 198—34.

Anderson, Gerald R., to FMC Corp. Method and apparatus for processing fruit. 3,351,114, 11–7–67, Cl. 146—238.

Anderson, Gerald R., to FMC Corp. Filtering device. 3,351,204, 11–7–67, Cl. 210—158.

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Anderson, Gordon R., Jr., to M&L Industries, Inc. Rotor shaft bearing for an electric motor. 3,320,446, 5–16–67, Cl. 310—42.

Anderson, Harold, Jr.: *See*—
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Anderson, Harold C., to Litton Systems, Inc. Spin resonant transducer and process. 3,332,072, 7–18–67, Cl. 340—173.

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Anderson, Harold C., to Litton Systems, Inc. Spin resonant recording process. 3,344,411, 9–26–67, Cl. 340—173.

Anderson, Harold C., to Litton Systems, Inc. Microwave process and apparatus. 3,352,704, 11–14–67, Cl. 117—36.8.

Anderson, Harold C., and K. E. Peltzer, to Litton Systems, Inc. Recording member for visibly recording radio frequency microwaves. 3,316,119, 4–25–67, Cl. 117—36.8.

Anderson, Harold C., and K. E. Peltzer, to Litton Systems, Inc. Method and apparatus for microwave radar signal receiving, recording and retransmision. 3,345,620, 10–3–67, Cl. 340—173.

Anderson, Harold C., and A. E. Shanholtzer, to Litton Systems, Inc. Converter using spin resonant material. 3,346,-813, 10–10–67, Cl. 325—448.

Anderson, Harold G.: *See*—
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Anderson, Harold N., and J. D. Helm, to Bemis Co., Inc. Vibratory volumetric feeding and bag filling apparatus. 3,353,572, 11–21–67, Cl. 141—72.

Anderson, Harold P., F. J. McMahon, G. A. Scharg, and H. Winter, to Bell Telephone Laboratories, Inc. Private branch exchange automatic number identification system. 3,346,-700 10–10–67, Cl. 179—27.

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Anderson, James A., to Breneman, Inc. End construction for shade roller. 3,308,874, 3–14–67, Cl. 160—326.

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Anderson, James A., and J. A. Ash, to Breneman-Hartshorn, Inc. Adjustable terminal for shade rollers. 3,315,728, 4–25–67, Cl. 160—326.

Anderson, James A., and F. F. Clark, to Bear Creek Mining Co. Method of locating concealed copper mineralization of enriched chalcocite type. 3,333,503, 8–1–67, Cl. 88—14.

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Anderson, James H. Vaporized fluid power system. 3,315,-466, 4–25–67, Cl. 60—36.

Anderson, James H. Vehicular power plant. 3,339,663, 9–5–67, Cl. 180—67.

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Anderson, James H. Vacuum jacketed pipe line and joint construction therefor. 3,360,001, 12–26–67, Cl. 137—375.

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Anderson, James R., and H. J. Wilde, to Research, Inc. Function generator. 3,329,804, 7–4–67, Cl. 235—61.6.

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Anderson, Jerrold L., G. L. Gardner, and N. H. Yoshida, to The National Cash Register Co. Encapsulation of aspirin in ethylcellulose and its product. 3,341,416, 9–12–67, Cl. 167—83.

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Anderson, John E., C. E. Parish, and G. H. Ross, to Signal Oil and Gas Co. Synthesis of symmetrical ureas. 3,341,583, 9–12–67, Cl. 260—553.

Anderson, John E., R. G. Zelmer, and W. Resnick, to Standard Oil Co. Preparation of high quality solid olefin polymers. 3,356,662, 12–5–67, Cl. 260—88.2.

Anderson, John G. Attenuation of high frequencies in commercial frequency power transmission lines. 3,333,119, 7–25–67, Cl. 307—89.

Anderson, John J., to S. C. Johnson & Sons, Inc. Captive plastic closure for container with integral container handle. 3,307,752, 3–7–67, Cl. 222—465.

Anderson, John J., and W. C. Harris, to S. C. Johnson & Son, Inc. Actuator cap. 3,312,723, 4–4–67, Cl. 222—402.13.

Anderson, John L., to Cleanometer Corp. Surface for contamination detection by using a radioactive labeled compound. 3,297,874, 1–10–67, Cl. 250—106.

Anderson, John R.: *See*—
Ahler, Roger L., and Anderson. 3,355,844.
Thomsen, Donald L., and Anderson. 3,355,760.

Anderson, John R., to Electrascope Research, Inc. Electro-optic information display device utilizing anacid-base indicator. 3,303,488, 2–7–67, Cl. 340—324.

Anderson, John W.: *See*—
Hess, Robert W., Thomsen, Porter, and Anderson. 3,314,-797.

Anderson, John W. Windshield wiper arm and blade assembly. 3,316,583, 5–2–67, Cl. 15—250.23.

Anderson, John W. Windshield wiper assembly. 3,317,946, 5–9–67, Cl. 15—250.42.

Anderson, John W. Windshield wiper blade. 3,328,825, 7–4–67, Cl. 15—250.36.

Anderson, John W. Windshield wiper blade assembly. 3,350,-738, 11–7–67, Cl. 15—250.42.

Anderson, Joseph W.: *See*—
Holloway, Joseph H., and Anderson. 3,323,008.

Anderson, Josephine: *See*—
Bowen, Hamilton M. 3,345,063.

Anderson, Karl R. Wire contact device. 3,349,196, 10–24–67, Cl. 179—175.25.

Anderson, Kelvin G., to W. R. Grace & Co. Device for electrostatically transporting an unrestrained sheet of dielectric film material. 3,325,709, 6–13–67, Cl. 317—262.

Anderson, Kelvin G., to W. R. Grace & Co. Package. 3,334,735, 8–8–67, Cl. 206—46.

Anderson, Kelvin G., and A. C. Monaghan, to Weldotron Corp. Shrink packaging apparatus. 3,340,670, 9–12–67, Cl. 53—30.

Anderson, Kenneth A., to Globe-Union Inc. Panel counting and separating apparatus. 3,343,691, 9–26–67, Cl. 214—7.

Anderson, Lars H. V., to Anson Inc. Picture frame easel. 3,350,047, 10–31–67, Cl. 248—464.

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Love, Mahlon L., and Anderson. 3,295,384.

Anderson, Lester F., W. C. Fink, and D. H. Pfefferle, to Sylvania Electric Products, Inc. Photoflash lamp. 3,327,283, 6–20–67, Cl. 339—145.

Anderson, Lewis G., to United States of America, Navy. Sing around velocimeter. 3,327,806, 6–27–67, Cl. 181—.5.

Anderson, Lloyd E., Sr.: *See*—
Buckwalter, Milton T., and Anderson. 3,339,392.

Anderson, Lloyd L., to Amerock Corp. Device for counterbalancing window sashes. 3,335,455, 8–15–67, Cl. 16—198.

Anderson, Lloyd L., to Amerock Corp. Foldable tablet assembly. 3,351,377, 11–7–67, Cl. 297—162.

Anderson, Lloyd R. Non-loosening hinge and mold. 3,327,435, 6–27–67, Cl. 52—27.

Anderson, Lloyd R. Non-loosening hinge. 3,345,679, 10–10–67, Cl. 16—128.

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Jorgensen, Arnold J., and Anderson. 3,336,581.

Anderson, Marvin M. Ice hole reamer and lifter. 3,299,970, 1–24–67, Cl. 175—18.

Anderson, Maurice J., to The Black Clawson Co. Paper machinery. 3,309,036, 3–14–67, Cl. 242—58.3.

Anderson, Mauritz G., and E. Eagle, to Swift & Co. Method of destroying trichinella spiralis in meat infested therewith. 3,305,367, 2–21–67, Cl. 99—157.

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Anderson, Nils E. Method of and apparatus for conveying manure from stable gutters. 3,319,896, 5–16–67, Cl. 241—25.

Anderson, Noel M. Drain back valve. 3,319,928, 5–16–67, Cl. 251—145.

Anderson, Norman C.: *See*—
Rupert, Robert, and Anderson. 3,356,846.

Anderson, Norman J.: *See*—
Schmid, John H., and Anderson. 3,357,561.

Anderson, Olof O. Article dispenser including a rotary support for a plurality of article retaining magazines. 3,351,-232, 11–7–67, Cl. 221—113.

Anderson, Olof V., to Anson, Inc. Dual key clasp. 3,299,-679, 1–24–67, Cl. 70—459.

Anderson, Olof V., to Anson, Inc. Cravat holder. 3,319,305, 5–16–67, Cl. 24—49.

Anderson, Oscar B., and J. M. Mundell, to United States Steel Corp. Stockline lining for a blast furnace. 3,358,986, 12–19–67, Cl. 266—43.

Anderson, Otto L., and M. L. Naylor. Metal arm guard for bow and arrow hunters. 3,304,555, 2–21–67, Cl. 2—16.

Anderson, Parker S., to Reeves Bros., Inc. Diaphragms for metering devices. 3,314,291, 4–18–67, Cl. 73—278.

Anderson, Paul G., 75% to Haak Mfg., Inc., and 25% to B. Curry. Cover for outdoor seats. 3,298,045, 1–17–67, Cl. 5—345.

Anderson, Paul G., to Haak Mfg., Inc. Bench and plank cover. 3,353,867, 11–21–67, Cl. 297—219.

Anderson, Paul L.: *See*—
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Anderson, Paul L., to Thiele Engineering Co. Rotary coupon placer. 3,302,946, 2–7–67, Cl. 271—29.

Anderson, Paul L., and J. A. Zagusta, to Rogers Corp. Printed circuit structure and method of making the same. 3,340,606, 9–12–67, Cl. 29—625.

Anderson, Peter B. Three section deep tillage cultivator. 3,298,446, 1–17–67, Cl. 172—456.

Anderson, Philip C., to Feed Service Corp. Pressurized livestock liquid feed dispenser. 3,303,824, 2–14–67, Cl. 119—72.5.

Anderson, Philip C., and F. Lothrop, to Feed Service Corp. Time controlled liquid dispenser. 3,347,212, 10–17–67, Cl. 119—51.11.

Anderson, Philip D., P. R. Coronado, and L. M. Berry, to United States of America, Atomic Energy Commission. Method of preparing a uranium article for a protective coating. 3,341,350, 9–12–67, Cl. 117—50.

Anderson, Philip M. Push button stop for multiple key telephone set. 3,333,069, 7–25–67, Cl. 200—42.

Anderson, Philip R., to Corinthian Cornice Systems, Inc. Assembly for use in building structures. 3,344,561, 10–3–67, Cl. 52—11.

Anderson, Philip W., and A. H. Dayem, to Bell Telephone Laboratories, Inc. Superconducting device of varying dimension having a minimum dimension intermediate its electrodes. 3,335,363, 8–8–67, Cl. 324—43.

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Miles, Russel T. 3,344,566.
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Anderson, Ralph F. Method and apparatus for packaging bars of plastic material. 3,345,795, 10–10–67, Cl. 53—23.

Anderson, Ralph F., to National Lock Co. Positive-holding spring latches. 3,346,289, 10–10–67, Cl. 292—175.

Anderson, Ralph F., to National Lock Co. Counterbalancing hinge support. 3,354,499, 11–28–67, Cl. 16—180.

Anderson, Ralph F., and L. Strombeck, to R. F. Anderson. Carton infeed mechanism. 3,298,288, 1–17–67, Cl. 93—53.

Anderson, Ralph F., and E. M. Webster, to National Lock Co. Bifold door hardware. 3,335,785, 8–15–67. Cl. 160—206.

Anderson, Ralph I.: *See*—
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Anderson, Rexford O. Hydrodynamic brake and speed controlled friction brakes. 3,334,711, 8–8–67, Cl. 188—86.

Anderson, Richard C.: *See*—
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Chafetz, Harry, and Anderson. 3,336,313.
Chafetz, Harry, and Anderson. 3,349,092.

Anderson, Richard D., to Kimberly-Clark Corp. Cellulosic product accumulator and packager. 3,329,252, 7–4–67, Cl. 198—34.

Anderson, Richard D., to Kimberly-Clark Corp. Apparatus and method for making cellulosic products. 3,344,483, 10–3–67, Cl. 19—145.

Anderson, Richard D., to Kimberly-Clark Corp. Apparatus for the manufacture of cellulosic product. 3,344,581, 10–3–67, Cl. 53—177.

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Anderson, Richard H., to The Robinson Clay Products Co. Methods of making seals for pipe joints. 3,356,778, 12–5–67, Cl. 264—45.

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Birum, Gail H., Schwendeman, and Anderson. 3,344,112.
Clampitt, Rodney B., Birum, and Anderson. 3,306,937.
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Anderson, Richard W., to Hewlett-Packard Co. Frequency converters using a transmission line impedance transformer. 3,310,747, 3–21–67, Cl. 325—445.

Anderson, Richard W., to Hewlett-Packard Co. Signal mixer having a common input and output port. 3,340,475, 9–5–67, Cl. 325—449.

Anderson, Robert C., and V. S. Bartoo, to Johns-Manville Corp. Apparatus for the manufacture of fibrous material. 3,346,356, 10–10–67, Cl. 65—14.

Anderson, Robert E.: *See*—
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Anderson, Robert E., to Texas Instruments Inc. Mountings for power transistors. 3,310,866, 3–28–67, Cl. 29—155.5.

Anderson, Robert E., and D. F. Scheddel, to The Dow Chemical Co. Ammonia-epichlorohydrin anion-exchange resins. 3,340,208, 9–5–67, Cl. 260—2.1.

Anderson, Robert E., and A. J. Gouin, to The Dow Chemical Co. Reduction of metal content of phenolics. 3,351,669, 11–7–67, Cl. 260—621.

Anderson, Robert F., to The Dow Chemical Co. Carton construction. 3,338,406, 8–29–67, Cl. 206—65.

Anderson, Robert F., to Imagineers Corp. Grilling apparatus. 3,353,527, 11–21–67, Cl. 126—25.

Anderson, Robert F., A. R. Hollister, and J. F. Reuteler, to Pratt & Whitney Inc. Automatic measuring lead screw compensator. 3,347,116, 10–17–67, Cl. 77—63.

Anderson, Robert H., to Standard Oil Co. Piping attachment means for plastic vessels. 3,298,560, 1–17–67, Cl. 220—83.

Anderson, Robert H., to Tektronix, Inc. Image intensifier storage tube. 3,317,782, 5–2–67, Cl. 315—11.

Anderson, Robert H., to Tektronix, Inc. Charge integrating bistable storage tube. 3,325,673, 6–13–67, Cl. 315—12.

Anderson, Robert H., to Standard Oil Co. Plastic tanks. 3,335,903, 8–15–67, Cl. 220—83.

Anderson, Robert H., to Standard Oil Co. Storage containers. 3,335,904, 8–15–67, Cl. 220—83.

Anderson, Robert H., to Tektronix, Inc. Combined direct viewing storage target and fluorescent screen display structure. 3,339,099, 8–29–67, Cl. 313—68.

Anderson, Robert J., to Parachem Corp. Dressing for a wound containing a hemostatic agent and method of treating a wound. 3,328,259, 6–27–67, Cl. 167—84.

Anderson, Robert J., and J. F. Short, to Union Carbide Canada Ltd. Pelletized explosive of trinitrotoluene prills coated with sodium and ammonium nitrate in an organic binder. 3,304,211, 2–14–67, Cl. 149—11.

Anderson, Robert M., to General Electric Co. Flash lamp. 3,303,674, 2–14–67, Cl. 67—31.

Anderson, Robert M., to General Electric Co. Flash lamp manufacture. 3,304,144, 2–14–67, Cl. 316—20.

Anderson, Robert M., to General Electric Co. Photoflash lamp. 3,304,750, 2–21–67, Cl. 67—31.

Anderson, Robert M., to General Electric Co. Method of manufacturing photoflash lamps. 3,320,012, 5–16–67, Cl. 316—20.

Anderson, Roger C., to Joy Mfg. Co. Mining machine having synchronized oscillating cutter heads. 3,333,895, 8–1–67, Cl. 299—71.

Anderson, Rolland L., to Champion Spark Plug Co. Throttle valve for internal combustion engines. 3,298,677, 1–17–67, Cl. 261—62.

Anderson, Ronald A., to Schlumberger Technology Corp. Well logging tool. 3,356,146, 12–5–67. Cl. 166—241.

Anderson, Roy A. Wire tie down assembly. 3,307,811, 3–7–67, Cl. 248—43.

Anderson, Roy H., and D. J. Lemery, to Atlas Chain Co., Ltd. File construction. 3,339,254, 9–5–67, Cl. 29—78.

Anderson, Roy H., and D. J. Lemery, to Globe Industries, Ltd. Saw chain. 3,346,025, 10–10–67, Cl. 143—135.

Anderson, Roy M.: *See*—
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Anderson, Royal A., and E. N. Connoy, to Contour Saws, Inc. Method of making band saw blade. 3,315,548, 4–25–67, Cl. 76—112.

Anderson, Russell H., and J. P. Campanelli, to Haskon, Inc. Plastic container construction. 3,343,698, 9–26–67, Cl. 215—31.

Anderson, Russell H., and J. P. Campanelli, to Haskon, Inc. Plastic caps for milk bottles. 3,357,583, 12–12–67. Cl. 215—38.

Anderson, Terry O., B. A. Blackman, and R. O. Wilson, to Halliburton Co. Well logging with single channel cable. 3,302,165, 1–31–67, Cl. 340—18.

Anderson, Terry O., B. A. Blackman, and R. H. Winn, to Halliburton Co. Integrated indication of seismic well logging signals. 3,314,498, 4–18–67, Cl. 181—5.

Anderson, Theodore H., to International Business Machines Corp. Document synchronizing and indexing control apparatus. 3,307,845, 3–7–67, Cl. 271—57.

Anderson, Thomas P., and T. E. Graves, to Microseal Corp. Film storage card. 3,339,302, 9–5–67, Cl. 40—159.

Anderson, Vern A., and G. L. Durney, deceased; (by J. L. Durney, widow), to Eaton Yale & Towne, Inc. Non-lubricated variable speed motor pulley. 3,318,166, 5–9–67, Cl. 74—230.17.

Anderson, Victor C., to The Regents of the University of California. Real-time running mean generator. 3,316,544, 4–25–67, Cl. 340—174.1.

Anderson, Victor C., and F. H. Fisher, to United States of America, Navy. Pressure actuated anchor. 3,311,080, 3–28–67, Cl. 114—206.

Anderson, Walter E., R. E. Hennen, and J. T. Redmon, to Globe-Union Inc. Battery hold-down device. 3,298,454, 1–17–67, Cl. 180—68.5.

Anderson, Walter F., to Fidelity Electric Co., Inc. Spring-driven electrical generator. 3,342,998, 9–19–67, Cl. 290—1.

Anderson, Walter I.: *See*—
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Anderson, Wilbert G.: *See*—
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Anderson, Wilbur G., to Packaging Corp. of America. Foldable rodenticide feeding box and blank therefor. 3,352,053, 11–14–67, Cl. 43—131.

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Anderson, William A., and W. D. Vernam, to Aluminum Co. of America. Aluminum base alloy. 3,304,209, 2–14–67, Cl. 148—32.5.

Anderson, William A., and R. Andrew, to Aluminum Co. of America. Aluminum reflectors. 3,312,535, 4–4–67, Cl. 29—183.5.

Anderson, William E., to Riegel Paper Corp. Duplex packaging materials. 3,318,759, 5–9–67, Cl. 161—235.

Anderson, William F., and S. Heller, to Itek Corp. Precision positioning system. 3,331,575, 7–18–67, Cl. 248—180.

Anderson, William S., to Braco, Inc. Flight and idler roller construction for endless belt. 3,315,788, 4–25–67, Cl. 198—137.

Anderson, William S., to Shell Oil Co. Copolymers of ethylene/stilbene. 3,338,877, 8–29–67, Cl. 260—88.2.

Anderson, William S., to Braco, Inc. Conveyor belt dodged link construction. 3,339,712, 9–5–67, Cl. 198—195.

Anderson, William Y., to Stow & Davis Furniture Co. Drawer suspension means. 3,333,914, 8–1–67, Cl. 312—341.

Anderson, Wilmer C., to General Time Corp. Analog-digital converter employing an symmetrical multivibrator. 3,319,243, 5–9–67, Cl. 340—347.

Anderson, Wilmer C., to General Time Corp. Integrating device. 3,340,387, 9–5–67, Cl. 235—150.3.

Anderson, Wilmer C., F. P. Rennie, and M. J. Ingenito, to General Time Corp. Temperature compensated, frequency stabilized magnetic oscillator. 3,319,185, 5–9–67, Cl. 331—113.

Anderson, Wilmer C., and F. P. Rennie, to General Time Corp. Remote control system including a frequency discriminating delay circuit. 3,319,225, 5–9–67, Cl. 340—147.

Anderson, Woodrow M., and B. N. Kleppin, to Chrysler Corp. Assist mechanism for cargo lids. 3,325,207, 6–13–67, Cl. 296—37.

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Andersson, Stig G. L., to Allmanna Svenska Elektriska Aktiebolaget. Transformer differential protection. 3,323,016, 5–30–67, Cl. 317—15.

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Andis, Mathew, to Andis Clipper Co. Multiple-part comb blade for hair clippers and a method for the production thereof. 3,330,184, 7–11–67, Cl. 90—11.

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Andonian, Martin D., to Andonian Associates, Inc. Windowless vacuum chamber for exposing a cooled device to successive samplers. 3,327,491, 6–27–67, Cl. 62—45.

Andonjev, Sergei M., P. G. Glazkov, V. A. Kuchin, K. I. Makarov, N. I. Pevny, A. M. Pochtman, P. A. Tesner, and O. V. Filipjev, to Gosuderstvensy Nauchno-Issledovatelsky I Proektny Institute Metallurgicheskoi Promyshlennosta. Steel melting and more particularly gas fired regenerative furnaces. 3,345,054, 10–3–67, Cl. 266—33.

Andrae, Fritz L., to The Garrett Corp. Linear servo absolute transducer. 3,320,809, 5–23–67, Cl. 73—407.

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Andrae, Karl H., to Jeffrey Gallon Mfg. Co. Sluice valve operating mechanism. 3,330,530, 7–11–67, Cl. 251—158.

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Andre, Allen R. Carbon arc torch. 3,350,540, 10–31–67, Cl. 219—139.

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Andre, Stephen N., to Sylvania Electric Products Inc. Ferrite stripline circulator having closed magnetic loop path and centrally located, conductive foil overlying radially extending center conductors. 3,334,317, 8–1–67, Cl. 333—1.1.

Andrea, Christo, to Diamond Power Specialty Corp. Liquid level gauge. 3,345,871, 10–10–67, Cl. 73—331.

Andreades, Sam, and G. A. Boswell, Jr., to E. I. du Pont de Nemours and Co. 5-fluoro-6-nitrimino and 6-keto steroid and their preparation. 3,320,291, 5–16–67, Cl. 260—397.4.

Andreadis, John T. Heat treatment cap. 3,349,825, 10–31–67, Cl. 150—2.3.

Andreae, John H., and P. L. Joyce, to International Standard Electric Corp. Electronic machine simulating a learning scheme. 3,355,713, 11–28–67, Cl. 340—172.5.

Andreani, Eugenio. Method of and apparatus for parallelizing and blending textile fibers. 3,327,356, 6–27–67, Cl. 19—243.

Andreani, Eugenio. Textile apron stabilizing and cleaning system for drafting units. 3,346,926, 10–17–67, Cl. 19—245.

Andreani, Gianfranco. Double apron drafting system for drawing frames. 3,303,534, 2–14–67, Cl. 19—248.

Andreas Stihl Maschinenfavrik: *See*—
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Andreasen, Christian B., and E. P. Romani, to Air-Shields, Inc. Pressure breathing monitor. 3,333,584, 8–1–67, Cl. 128—145.5.

Andreasen, Sigurd J., and O. A. Meyer. Portable elevator conveyers for use with trucks. 3,319,775, 5–16–67, Cl. 198—154.

Andreasen, Sigurd J., and O. A. Meyer. Apparatus for mixing and dispensing, by hydraulic pressure, an aqueous solution containing plant life. 3,360,166, 12–26–67, Cl. 222—136.

Andreasen, Werner B. Cable tie and anchor. 3,300,825, 1–31–67, Cl. 24—16.

Andreasson, Bror E. Device for pressing in air into inflatable objects, e.g., air mattresses. 3,297,241, 1–10–67, Cl. 230—160.

Andreasson, Donald C., to Detroit Reamer & Tool Co. Deep-hole drill and reamer. 3,320,833, 5–23–67, Cl. 77—68.

Andreasson, Donald C., to Detroit Reamer & Tool Co. Rotary tool construction. 3,359,837, 12–26–67, Cl. 77—68.

Andreasson, Jan-Erik, to A.B. Tetra Pak. Package having a slit folding line forming a pouring edge. 3,353,738, 11–21–67, Cl. 229—7.

Andreasson, Rudolf W. Rotary tool. 3,307,243, 3–7–67, Cl. 29—106.

Andreau, Walter, to Ciba Ltd. Photographic materials for the silver dyestuff bleaching process. 3,304,181, 2–14–67, Cl. 96—99.

Andren, Ingmar, to Linde Maskiner, Aktiebolaget. Channel supports for screen frames. 3,331,508, 7–18–67, Cl. 209—319.

Andren, Karl H., to Artos Engineering Co. Apparatus for production of electrical conductors. Re. 26,152, 1–31–67, Cl. 29—33.

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Schmitz-Josten, Robert, Frank, Wegler, and Andres. 3,342,895.

Andres, Karl-Heinz, H.-H. Steinbach, and K. Damm, to Farbenfabriken Bayer Aktiengesellschaft. Foamed materials from polyepoxy compounds. 3,300,418, 1–24–67, Cl. 260—2.5.

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Andresen, John H., Jr., to J. F. Baier. Fluid temperature regulation mixture valve. 3,318,525, 5–9–67, Cl. 236—12.

Andresen, John H., Jr., to Intercontinental Dynamics Corp. Altitude rate indicating system. 3,358,505, 12–19–67, Cl. 73—179.

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Anocut Engineering Co.: *See*—
Bender, Joseph L., and Williams. 3,309,303.
Bruns, Norbert A. 3,311,549.
Williams, Lynn A. 3,326,785.
Williams, Lynn A. 3,352,774.
Williams, Lynn A., and Davis. 3,328,279.

Anraku, Takao, J. Ide, and T. Kobayashi, to Chugai Seiyaku Kabushiki Kaisha. Adenosine triphosphate salts of L-ornithine and process for preparing the same. 3,340,249, 9–5–67, Cl. 260—211.5.

Anritsu Electronic Works, Ltd.: *See*—
Kasugai, Takahiko, and Nojima. 3,335,337.

Ans, Inc.: *See*—
Thomas, Edward W., Henthorn, and Bole. 3,320,419.

Anschel, Joachim, A. E. Fox, G. L. Evans, and B. S. Schwartz, to Warner-Lambert Pharmaceutical Co. Process for the preparation of a soluble bacterial extract. 3,331,741, 7–18–67, Cl. 167—78.

Anschutz, Herbert, and N. Wayss, to Brown, Boveri & Cie, Aktiengesellschaft. Teaching apparatus. 3,344,534, 10–3–67, Cl. 35—9.

Anschutz, Rolf, to SWF, Spezialfabrid fuer Autozubeboer Gustav Rau G.m.b.H. Time delay switch having pneumatically delayed disconnection means. 3,303,297, 2–7–67, Cl. 200—34.

Anselin, Francois, and R. Pascard, to Commissariat a l'Energie Atomique. Process for the preparation of metallic nitrides. 3,322,510, 5–30–67, Cl. 23—347.

Anson, Howard G.: *See*—
Long, George E., and Anson. 3,334,560.

Anson, Inc.: *See*—
Anderson, Lars H. V. 3,350,047.
Anderson, Olof V. 3,299,679.
Anderson, Olof V. 3,319,305.

Anson, Michael D. Inner spring mattress and handle combination. 3,351,964, 11–14–67, Cl. 5—351.

Ansonia Wire & Cable Co.: *See*—
Vincent, René C. 3,330,516.

Anspach, Alexander M., Jr., to General Dynamics Corp. Snap-in terminal. 3,334,327, 8–1–67, Cl. 339—217.

Anspon, Harry D., to General Aniline & Film Corp. Optical effect in acrylate polymers by an internal foamed structure. 3,330,784, 7–11–67, Cl. 260—2.5.

Anspon, Harry D., to Gulf Research & Development Co. Method of providing amide polymers. 3,337,517, 8–22–67, Cl. 260—86.7.

Anspon, Harry D., to General Aniline & Film Corp. Polymerization of halo acrylate monomers using ultraviolet light and hydroxy substituted benzophenone absorbers. 3,352,771, 11–14–67, Cl. 204—159.23.

Anspon, Harry D., to General Aniline & Film Corp. Strain free, light stable halo-acrylate polymers and method of production. 3,359,236, 12–19–67, Cl. 260—45.95.

Anspon, Harry D., W. H. Byler, and G. E. Ham, to Gulf Oil Corp. Ethylene/acrylate ester copolymers. 3,350,372, 10–31–67, Cl. 260—86.7.

Anstalt Europaische Handelsgesellschaft: *See*—
Sturzinger, Oskar, and Gemperle. 3,354,819.

Anstalt fur Montage-Technik: *See*—
Gawlick, Heinz. 3,335,855.
Hilt, Martin. 3,324,542.
Seghezzi, Hans-Dieter and Rangger. 3,321,122.

Anstalt fur Technische Entwicklung und Verwertung: *See*—
Arnaud, Eric. 3,314,782.

Anstalt, Panoduz: *See*—
Privas, Yves. 3,336,713.

Anstalt Tropa: *See*—
Beckmann, Joseph. 3,330,926.

Anstee, Leon L., to Sperry Rand Corp. Forage receiving and self-unloading unit. 3,348,707, 10–24–67, Cl. 214—44.

Anstett, Raymond M., W. W. Wellman, and H. W. Andrews, to Colgate-Palmolive Co. Detergent bar. 3,340,196, 9–5–67, Cl. 252—106.

Ansul Chemical Co.: *See*—
Keller, William E. 3,313,264.

Ansul Co., The: *See*—
Harnden, Robert C., and Moore. 3,342,584.

Antalek, John J., to TRW Inc. Coupling device with transformer and disc capacitors. 3,327,172, 6–20–67, Cl. 317—99.

Antares, S.p.A.: *See*—
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Antaya, Clifford R., and R. W. Fox, to General Motors Corp. Convertible top latch mechanism. 3,353,864, 11–21–67, Cl. 296—121.

Antell, George R., to International Standard Electric Corp. Method of forming a gallium arsenide transistor by diffusion. 3,352,725, 11–14–67, Cl. 148—186.

Antelo, Rodolfo B. Sole and heel structure for shoes. 3,318,025, 5–9–67, Cl. 36—30.

Antelo, Rodolfo B. Heel structure for shoes. 3,318,026, 5–9–67, Cl. 36—42.

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Finke, Arthur A., Kline, Pikler, and Robertson. 3,318,561.
Friedberg, Milton R., and Bykerk. 3,316,487.

Antes, Hans-Peter. Electronic stepping switch. 3,296,384, 1–3–67, Cl. 179—100.1.

Antes, Jack E.: *See*—
Brown, Albert C., Maranto, Antes, and Phelps. 3,360,767.

Anthes, Clifford C., E. Meincke, and J. Villoresi, to Union Carbide Corp. Constant pressure series of oxy-fuel cutting nozzles. 3,314,612, 4–18–67, Cl. 239—589.

Anthes, Clifford C., and B. H. Acomb, to Union Carbide Corp. Anti-backlash throttle valve. 3,338,549, 8–29–67, Cl. 251—224.

Anthes Imperial Ltd.: *See*—
Merson, Karol J. W. 3,342,007.

Anthes, John A., and D. D. Phelps, to Dravo Corp. Pelletizing method. 3,326,668, 6–20–67, Cl. 75—3.

Anthes, Lester B., to The Carborundum Co. Heavy medium separation media and process. 3,297,158, 1–10–67, Cl. 209—172.5.

Anthon, Erik W., to Warner-Lambert Pharmaceutical Co. Automatic rebalance measuring system with its indicator coupled by eccentric drive means for scale distribution control. 3,323,058, 5–30–67, Cl. 324—132.

Anthony, Andrew J., to Combustion Engineering, Inc. Coupling joint for nuclear reactor control rod arrangement. 3,309,118, 3–14–67, Cl. 287—103.

Anthony, Andrew J., to Combustion Engineering, Inc. Nuclear reactor fuel assembly-control rod organization. 3,314,859, 4–18–67, Cl. 176—50.

Anthony, Andrew J., to Combustion Engineering, Inc. Fuel assembly for nuclear reactor. 3,352,758, 11–14–67, Cl. 176—78.

Anthony, Andrew J., and M. B. Loureiro, to Combustion Engineering, Inc. Nuclear reactor fuel assemblies. 3,331,749, 7–18–67, Cl. 176—78.

Anthony, Benjamin F., to Oglebay Norton Co. Attaching means for bottom ring. 3,302,921, 2–7–67, Cl. 249—202.

Anthony, Charles, Jr., to Specialties Development Corp. Foam plug generator. 3,342,271, 9–19–67, Cl. 169—15.

Anthony, Donald R., R. G. Loncaric, and R. E. Fields, to The Atlantic Refining Co. Method for preventing corrosion. 3,298,438, 1–17–67, Cl. 166—38.

Anthony, F. M., Co.: *See*—
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Anthony, Joseph G. Building with internal air flow passages. 3,303,770, 2–14–67, Cl. 98—31.

Anthony, Myron L.: *See*—
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Anthony, Myron L., and B. R. Better, to Scully International, Inc. Apparatus for automatic tool changing. 3,311,973, 4–4–67, Cl. 29—568.

Anthony, Myron L., and B. R. Better, to Scully-Anthony Corp. Automatic tool changing apparatus. 3,315,351, 4–25–67, Cl. 29—568.

Anthony, Myron L. Instrumentation systems. 3,344,665, 10–3–67, Cl. 73—178.

Anthony, Paul P., and H. W. Rahn, to Pittsburgh Plate Glass Co. Electrolytic production of alkali metal chlorates. 3,329,594, 7–4–67, Cl. 204—95.

Anthony, Russel W.: *See*—
Motz, Carl H., and Anthony. 3,299,520.
Motz, Carl H., and Anthony. 3,314,157.

Anthony, Russel W., to National Broach & Machine Co. Expanding arbor. Re. 26,248, 8–15–67, Cl. 82—44.

Anthony, Russel W., to National Broach & Machine Co. Gear checker. 3,299,521, 1–24–67, Cl. 33—179.5.

Anthony, Russel W., to National Broach & Machine Co. Expanding arbors. 3,299,753, 1–24–67, Cl. 82—44.

Anthony, Russel W., to National Broach & Machine Co. Broaching apparatus. 3,327,589, 6–27–67, Cl. 90—71.

Anthony, Russel W., to National Broach & Machine Co. Checker. 3,337,964, 8–29–67, Cl. 33—179.5.

Anthony, Russel W., to National Broach & Machine Co. Method and apparatus for correcting ovality of annular gears. 3,353,391, 11–21–67, Cl. 72—110.

Anthony, Russel W., and C. H. Motz, to National Broach & Machine Co. Pitch diameter rounder. 3,353,392, 11–21–67, Cl. 72—110.

Anthony, Walter H.: *See*—
Walterick, Kenneth H., and Anthony. 3,321,601.
Zoda, Frederick A., and Anthony. 3,328,540.

Anthony, Walter H., F. A. Zoda, and K. H. Walterick, to Circle F Mfg. Co. Rotary dimmer switch of the canopy type. 3,359,393, 12–19–67, Cl. 200—155.

Anthony, William A. Coasting vehicle. 3,339,940, 9–5–67, Cl. 280—87.01.

Anthony, William C.: *See*—
Ursprung, Joseph J., and Anthony. 3,357,981.

Anthony, William C., to The Upjohn Co. Dispiro[cycloalkane-1,2′-oxirane-3′,3′′-indolin]-2′′-ones, and intermediates and process therefor. 3,301,868, 1–31–67, Cl. 260—325.

Anthony, William C., to The Upjohn Co. Pyrimido-1,3,5-triazinols. 3,354,159, 11–21–67, Cl. 260—249.6.

Anthun, Bjarne, to Motorola Inc. Distortionless volume-tone control circuit. 3,349,331, 10–24–67, Cl. 325—424.

Antill, John E., to United Kingdom Atomic Energy. Ceramic fuel element for a gas-cooled nuclear reactor including a metallic fuel container provided with an oxidation resistant coating. 3,359,176, 12–19–67, Cl. 176—82.

Antioch College: *See*—
Terp, Norman T. 3,333,471.
Vernet, Sergius. 3,357,252.

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Antoine Francois Regis Peyron: *See*—
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Anton, Ernst: *See*—
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Anton, Ernst, to Badische-Anilin- & Soda-Fabrik Aktiengesellschaft. Crystalline modifications of perylene-3,4,9,10-tetracarboxylic acid bis-(4-phenylazo)-phenylimide. 3,346,551, 10–10–67, Cl. 260—152.

Anton, Joe. V-block clamp construction. 3,358,990, 12–19–67, Cl. 269—118.

Anton, Nicholas, to Eon Corp. Micro-miniature beta gamma detector having a hollow tubular cathode. 3,297,896, 1–10–67, Cl. 313—93.

Anton, Nicholas, to Wen Products, Inc. Electrically heated soldering device. 3,316,385, 4–25–67, Cl. 219—236.

Anton, Nicholas, to Eon Corp. Micro-miniature beta gamma detector. 3,338,653, 8–29–67, Cl. 316—20.

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Mohn, Reuben A., and Antonelli. 3,343,517.

Antoniades, Emilios P., to Chevron Research Co. Thioether sulfonates. 3,342,741, 9–19–67, Cl. 252—152.

Antoniades, Harry N., to Protein Foundation, Inc. Reagent for increasing activity of insulin. 3,326,763, 6–20–67, Cl. 167—74.

Antonides, Harold J., and R. L. Dietchweiler, to Armour Pharmaceutical Co. Field test for indicating and measuring quaternary ammonium compounds. 3,317,282, 5–2–67, Cl. 23—230.

Antonides, Harold J., to Armour Pharmaceutical Co. Anti-inflammatory preparations containing proteolytic enzymes and adrenal glucocorticoids. 3,324,002, 6–6–67, Cl. 167—73.

Antonik, Alan S. Adhesive bandage having container of medicament carried by removable protector strip. 3,297,032, 1–10–67, Cl. 128—268.

Antonio, Carlo Degli. Web doffing device for carding machines, with blades or wires moving in planes tangent to the doffer. 3,345,698, 10–10–67, Cl. 19—106.

Antonio, Carlo Degli. Positioning device for the thread guide of a reeling machine. 3,334,830, 8–8–67, Cl. 242—53.

Antonioli, Louis A. Lock mechanism. 3,312,494, 4–4–67, Cl. 292—281.

Antonov, Igor P.: *See*—
Samoilov, Vladimir P., Vasiljev, Vasilenko, Vinch, and Antonov. 3,332,721.

Antonova, Stanislava I.: *See*—
Romanchuk, Maria A., Suvorov, Kalinkina, Trostjanskaja, Tevlina, Antonova, Sokolova, Liebelman, Jaroslavtseva, Shchukina, Shagalov, Grinjuk, Nikiforova, Krasnova, Balashova, and Kovylkina. 3,356,695.

Antonsen, Cyrus M. Attachment for supplying auxiliary air to a carburetor. 3,301,539, 1–31–67, Cl. 261—47.

Antonsen, Donald H., and R. H. Johnson, to Sun Oil Co. Preparation of synthetic lubricating oils. 3,325,560, 6–13–67, Cl. 260—683.15.

Antonsen, Donald H., to Sun Oil Co. Preparation of linear internal olefins. 3,346,662, 10–10–67, Cl. 260—683.15.

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Antonucci, Carmine J., to Potter Instrument Co., Inc. High speed printer drum with print plate mounting means. 3,353,481, 11–21–67, Cl. 101—93.

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Antos, Joseph. Shutter mechanism for slide projectors. 3,308,718, 3–14–67, Cl. 88—26.

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Savin, Cornelius, Vorwald, and Vagts. 3,340,624.

Antunes, Manoel J. Process for making a spark plug. 3,350,759, 11–7–67, Cl. 29—25.12.

Anusauckas, Anthony V.: *See*—
Smith, Millard F., and Anusauckas. 3,321,923.
Smith, Millard F., and Anusauckas. 3,334,657.

Anselin, Francois, and R. Pascard, to Commissariat a l'Energie Atomique. Uranium monocarbide-plutonium mononitride nuclear fuel. 3,309,322, 3–14–67, Cl. 252—301.1.

Anwyl, Robert D., and A. G. Stimson, to Eastman Kodak Co. Filter compensation mechanism. 3,314,344, 4–18–67, Cl. 95—10.

Anzac Electronics, Inc.: *See*—
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Podell, Allen F. 3,327,220.
Sontheimer, Carl G. 3,325,587.

Anzalone, Emilio A. Drill coupling tool. 3,341,237, 9–12–67, Cl. 287—125.

Aoki, Eizo. Hydraulically actuated clamping mechanism for the mold in an injection molding apparatus. 3,310,840, 3–28–67, Cl. 18—30.

Aoki, Katashi. Injection molding machine. 3,345,691, 10–10–67, Cl. 18—30.

Aoki, Kunio: *See*—
Morikawa, Takashi, Aoki, Nakamura, Maruyama, and Sakurai. 3,344,593.

Aoki, Nobuhiko, and M. Ajiro, to Kabushiki Kaisha Hitachi Seisakusho. D.C.-A.C. conversion circuit having output frequency which is independent of load and power supply variations. 3,310,755, 3–21–67, Cl. 331—113.

Aoki, Toshio, to Hitachi Electronics Co., Ltd. Microwave wide-band detectors. 3,353,125, 11–14–67, Cl. 333—98.

Aoki Yoshikazu, T. Kamei, and A. Hayami, to Tachikawa Research Institute. Process for the manufacture of rayon paper or non-woven fabric by the wet system. 3,320,117, 5–16–67, Cl. 162—157.

Aoki, Yukio: *See*—
Miklya, Toshio, and Aoki. 3,344,868.

Aotani, Kiyoshi: *See*—
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Aoyama, Tetsuo, and T. Teragaki, to Fujitsu, Ltd. Multiface indicator system. 3,307,170, 2–28–67, Cl. 340—324.

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O'Keefe, Michael F., and Apa. 3,331,917.
Ziegler, George W., Jr., Demler, and Apa. 3,325,885.

Apa, Armand S., and G. W. Ziegler, Jr., to AMP Inc. Cable dressing means. 3,346,949, 10–17–67, Cl. 29—560.

Aparicio Hermanos & Cia, S.A.: *See*—
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Apat, Joseph K., J. E. Brady, and W. F. Elias, to American Home Products Corp. Stabilized benzathine penicillin compositions. 3,351,527, 11–7–67, Cl. 167—65.

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Apblett, William R., Jr., and J. Martin. Rotatable arc welding torch. 3,345,494, 10–3–67, Cl. 219—125.

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Apfelbaum, Jerome G., R. L. Bachner, and J. M. Mountz, to Solar Systems Inc. Punched card reader. 3,335,265, 8–8–67, Cl. 235—61.11.

Apfelbeck, Ludwig, to Bayerische Motoren Werke A.G. Valve control for internal combustion engines. 3,299,871, 1–24–67, Cl. 123—90.

Apice, Pasquale J., to Allied Chemical Corp. Air drying polyesters. 3,352,943, 11–14–67, Cl. 260—871.

Apicella, Anthony M., Jr.: *See*—
Franks, John T., Jr., and Apicella. 3,354,444.

Apitz, Siegfried: *See*—
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Apollo Chemical Corp.: *See*—
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Kukin, Ira. 3,348,932.

Apostle, George, D. W. P. Carlson, and P. J. Polland. Bowling score computer. 3,310,659, 3–21–67, Cl. 235—92.

Apostolina, Alexander: *See*—
Adler, Irwin L., and Apostolina. 3,338,724.

Apotheker, David, to E. I. du Pont de Nemours and Co. Xanthogen disulfide and amine preparation of polychloroprene. 3,300,433, 1–24–67, Cl. 260—29.7.

Apotheker, David, to E. I. du Pont de Nemours and Co. Process for preparing prevulcanized chloroprene polymer latices. 3,317,451, 5–2–67, Cl. 260—29.7.

Apotheker, David, to E. I. du Pont de Nemours and Co. Recovery of dimethyl formamide from triacetylene by distillation in the presence of a polymerization inhibitor. 3,360,443, 12–26–67, Cl. 203—9.

Apouchtine, Dimitri. Outlet grill for air ducts. 3,320,868, 5–23–67, Cl. 98—40.

Appalachian Electronic Instruments, Inc.: *See*—
Fertig, Raymond B., and Nickell. 3,345,836.
Nickell, Lawrence C., and Fertig. 3,345,835.

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Kritzler, Arthur, and Sandmann. 3,319,706.
Sandmann, Herbert. 3,319,705.

Appareils et Evaporateurs Kestner: *See*—
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Myon, Rene. 3,314,757.

Appel, Arne: *See*—
Louzil, Friedrich, Appel, and Podest. 3,314,624.

Appel, Henry W., W. Borberg, and A. F. Hayek, to Smith Kline & French Laboratories. Ultrasonic transducer scanner. 3,308,652, 3–14–67, Cl. 73—71.5.

Appel, Rolf, to Olin Mathieson Chemical Corp. Trimethylamine-imine di(tert.) butanol and process of preparation. 3,313,855, 4–11–67, Cl. 260—583.

Appel, Rolf, to Olin Mathieson Chemical Corp. Dimethyl triphenyl phosphinimine phosphate. 3,356,767, 12–5–67, Cl. 260—926.

Appel, Rolf, to Olin Mathieson Chemical Corp. Process for preparing halosulfonyl isocyanates. 3,357,804, 12–12–67, Cl. 23—357.

Appel, Rolf, to Olin Mathieson Chemical Corp. Triphenylphosphinimine dihalophosphates and their production. 3,358,021, 12–12–67, Cl. 260—543.

Appelbaum, Arthur, to E. I. du Pont de Nemours and Co. Stripping films. 3,307,950, 3–7–67, Cl. 96—83.

Appeldorn, Roger H., to Minnesota Mining and Mfg. Co. Nested fresnel-type lenses. 3,334,958, 8–8–67, Cl. 350—211.

Appeldorn, Roger H., and D. C. Gilkeson, to Minnesota Mining and Mfg. Co. Projection objective affording variable magnification. 3,357,775, 12–12–67, Cl. 350—186.

Appell, Kenneth G.: *See*—
Case, John S., and Appell. 3,356,342.

Appelman, Evan H.: *See*—
Malm, John G., and Appelman. 3,305,343.

Appenzeller, Valentin: *See*—
Kusters, Eduard, and Appenzeller. Re. 26,219.

Apperson, Charles H.: *See*—
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Hovis, Louis S., Apperson, and Blackburn. 3,318,983.

Apperson, Charles H., and J. R. Misenheimer, to Monsanto Co. Acrylonitrile polymer spinning compositions. 3,313,758, 4–11–67, Cl. 260—29.6.

Apple, Eugene F., and J. B. Hollopetre, to General Electric Co. Calcium halophosphate phosphor for highly loaded lamp. 3,351,796, 11–7–67, Cl. 313—109.

Apple, Garold E. Tree stand. 3,350,043, 10–31–67, Cl. 248—48.

Apple, Joseph S., to The Bunker-Ramo Corp. Amplifying circuit with controlled disabling means. 3,303,843, 2–14–67, Cl. 328—95.

Apple, Joseph S., to The Bunker-Ramo Corp. Digital storage register transfer apparatus. 3,319,228, 5–9–67, Cl. 340—172.5.

Applebaum, Curtis H., 40% to G. J. McGrath, 30% to C. H. Applebaum, and 30% to W. B. Legerquist. Telephone message-waiting monitoring device. 3,320,368, 5–16–67, Cl. 179—84.

Applebaum, Samuel B., and G. J. Crits, to Crane Co. Steam power plant. 3,336,747, 8–22–67, Cl. 60—64.

Applebee, Gerald L., to Carrier Corp. Fluid fuel burner. 3,358,737, 12–19–67, Cl. 158—115.

Appleberry, Walter T., to Douglas, McDonnell Corp. Hermaphrodite coupling. 3,337,244, 8–22–67, Cl. 285—70.

Appleby, Basil P. Intra-uterine contraceptive device. 3,319,625, 5–16–67, Cl. 128—130.

Appleby, Edward F., Jr., and F. P. Hodges, to United States of America, Navy. System for measuring sea surface characteristics from a submerged submarine. 3,336,800, 8–22–67, Cl. 73—170.

Appleby, Henry H., to Neway Sales, Inc. Valve seat cutter. 3,334,528, 11–28–67, Cl. 29—105.

Appleby & Ireland Ltd.: *See*—
Sharp, Douglas C. W. T., and Seal. 3,307,165.

Appleby, John, to Quality Food Products, Inc. Method of improving pretzel products. 3,306,751, 2–28–67, Cl. 99—86.

Applegate, Earl. Power driven baseball pitching machine with batter signalling means. 3,308,802, 3–14–67, Cl. 124—1.

Applegate, Leslie T., and P. Kavula, to Surgical Appliance Industries, Inc. Cervical splint. 3,313,297, 4–11–67, Cl. 128—75.

Applegath, Douglas D., and W. A. Henson, to The Dow Chemical Co. Transparent mixed epoxy resin composition and safety laminated articles made therefrom. 3,315,035, 4–18–67, Cl. 178—7.82.

Appleman, Leon. Heating unit. 3,303,324, 2–7–67, Cl. 219—345.

Appleman, Milo D., to J. J. Schroeder. Method and means for converting odors in manure and human excreta. 3,345,152, 10–3–67, Cl. 71—21.

Appleman, William S., to Harsco Corp. Tail gate latch assembly. 3,305,263, 2–21–67, Cl. 296—56.

Appler, Orville L.: *See*—
Turner, Chares T., and Appler. 3,302,506.

Appleton, Anthony D., to International Research & Development Co. Ltd. Electric contact brushes. 3,349,210, 10–24–67, Cl. 200—166.

Appleton, Arthur I. Quick mounting hanger for pipe and conduit. 3,310,264, 3–21–67, Cl. 248—72.

Appleton, Arthur I. Multi-conductor cable connector of bridging type. 3,323,096, 5–30–67, Cl. 339—89.

Appleton, Arthur I. Explosion-proof plug and receptacle with switch means. 3,330,920, 7–11–67, Cl. 200—51.07.

Appleton, Arthur I. Explosion-proof plug and receptacle with releasable socket engaging means. 3,346,709, 10–10–67, Cl. 200—51.9.

Appleton, Arthur I. Explosion-proof switch. 3,350,532, 10–31–67, Cl. 200—168.

Appleton Coated Paper Co.: *See*—
Busch, Thomas W., and Lewenstein. 3,311,499.
Williams, Henry P., Jr., Rosenbohm, and Page. 3,357,352.

Appleton, Daniel, and G. W. Cleversey, to United Shoe Machinery Corp. Shoe manufacturing. 3,348,251, 10–24–67, Cl. 12—147.

Appleton Machine Co.: *See*—
Agronin, Tany, Lamon, and Thomas. 3,333,533.
Klemmer, Paul J. 3,359,938.
Mater, Milton H. 3,310,079.

Appleton Mfg. Co.: *See*—
Harvey, Ronald B. 3,344,696.

Appleton, Martin D.: *See*—
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Araujo, Roger J., R. A. Eppler, and E. F. Krause, to Corning Glass Works. Phototropic glass article and method. 3,328,182, 6–27–67, Cl. 106—54.

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Archer, Giles A., and L. H. Sternbach, to Hoffmann-La Roche Inc. Novel 5-aryl-1,2,4,5-tetrahydrobenzodiazepin-3-one compounds. 3,317,518, 5–2–67, Cl. 260—239.3.

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Armbruster, Werner K., to Rheinstahl Huttenwerke Aktiengesellschaft. Method and apparatus for degassing and casting metal vacuum. 3,310,850, 3–28–67, Cl. 22—73.

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Armendt, Bradshaw F., B. R. Coltharp, and H. W. Earhart, to Esso Research and Engineering Co. Chlorination of aromatic hydrocarbon. 3,326,987, 6–20–67, Cl. 260—650.

Armeneau, Harold C., and J. A. Little, to Kelowna Machine Works Ltd. Loading apparatus. 3,338,442, 8–29–67, Cl. 214—767.

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Armstrong, Edmond, Constant-volume underwater exposure suit. 3,337,876, 8-29-67, Cl. 2—2.1.

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Armstrong, Philip N. Sorting system for multiple bit binary records. 3,329,939, 7-4-67, Cl. 340—172.5.

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Armstrong, Robert H. Fluid actuated door operating mechanism. 3,349,516, 10-31-67, Cl. 49—25.

Armstrong, Robert J., and J. P. Levy, to The Sperry Gyroscope Co., Ltd. Method of forming contact assemblies. 3,318,785, 5-9-67, Cl. 204—25.

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Armstrong, William H. Heat transfer apparatus. 3,295,595, 1-3-67, Cl. 165—56.

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Arndt, Charles J. to Westinghouse Air Brake Co. Boring type mining machine having ripper cutter chains guided between boring heads. 3,360,299, 12-26-67, Cl. 299—57.

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Freund, Heinz E., Arndt, and Rusch. 3,352,663.

Arndt, Friedrich-Karl, to Beteiligungs- und Patentverwaltungsgesellschaft m.b.H. Impact tool. 3,322,210, 5-30-67, Cl. 173—134.

Arndt, Heinz-Herbert, J. Schadel, and H. Uebel, to Siemens-Schuckertwerke Aktiengesellschaft. Process of open-type diffusion in semiconductor by gaseous phase. 3,314,833, 4-18-67, Cl. 148—189.

Arndt, Heinz-Herbert, J. Schädel, and T. Renner, to Siemens-Schuckertwerke Aktiengesellschaft. Controllable semiconductor devices with a negative current-voltage characteristic and method of their manufacture. 3,321,680, 5-23-67, Cl. 317—234.

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Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 3,335,905, 8-15-67, Cl. 220—113.

Arneson, Harold E. G. Hydrostatic bearing structure. 3,305,282, 2-21-67, Cl. 308—122.

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Arnett, Boyd J., deceased: L. F. Arnett, administratrix. Carton flap-opening apparatus. 3,309,842, 3-21-67, Cl. 53—382.

Arnett, Boyd J., deceased: L. J. Arnett, administratrix. Carton loading apparatus. 3,340,676, 9-12-67, Cl. 53—247.

Arnett, Lillian F.: *See*—
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Arnett, Lillian J.: *See*—
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Arnholdt, Eric. Airfoil. 3,298,636, 1-17-67, Cl. 244—41.

Arnold, Alanson J., and W. M. Ripple, to American Radiator & Standard Sanitary Corp. Rotary conveyer apparatus. 3,306,426, 2-28-67, Cl. 198—33.

Arnold, Albert E., Jr., and A. R. De La Rosa. Smoking apparatus. 3,303,849, 2-14-67, Cl. 131—175.

Arnold, Carter H., to Western Gear Corp. Scaffold hoisting means. 3,302,750, 2-7-67, Cl. 182—112.

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Arnold, Cornelius S., and H. C. Rolseth, to Union Carbide Corp. Thermal mechanical mineral piercing. 3,322,213, 5-30-67, Cl. 175—14.

Arnold, David B., to E. I. du Pont de Nemours and Co. Thermal fatigue-resistant airfoil shapes from dispersion-modified metals. 3,354,683, 11-28-67, Cl. 72—206.

Arnold, Edwin W., O. L. Updike, Jr., and N. R. Zinner, to Azur Associates. Diaper with film enclosed absorbent. 3,344,789, 10-3-67, Cl. 128—287.

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Arnold, George H., to The General Electric Co., Ltd. Air cooled electrical apparatus. 3,356,903, 12-5-67, Cl. 317—100.

Arnold, Gerald D., and A. H. Eppler. Dehydrator and method of dehydration particularly for grains. 3,299,526, 1-24-67, Cl. 34—12.

Arnold, Harold D., to Emerson Electric Co. Shaded pole motor. 3,313,965, 4-11-67. Cl. 310—172.

Arnold, Harold E., to E. I. du Pont de Nemours and Co. Process for crimping difficultly crimpable fibers. 3,335,477, 8-15-67, Cl. 28—72.

Arnold, Heinz B., to General Mills, Inc. Adhesives from fatty guanamines and diglycidyl ethers of polyalkylene glycols and process of making same. 3,344,089, 9-26-67, Cl. 260—2.

Arnold, Herbert, R. Rebling, N. Brock, and H.-D. Lenke, to Asta-Werke AG, Chemische Fabrik. Phenthiazine compounds. 3,320,247, 5-16-67, Cl. 260—243.

Arnold, Herbert, R. Rebling, J. Potel, and W. Ebeling, to Asta-Werke AG. Basically substituted ureas and salts thereof. 3,334,115, 8-1-67, Cl. 260—309.7.

Arnold, Howard N., to Baron-Blakeslee, Inc. Degreaser with optionally rotary and non-rotary containers. 3,308,920, 3-14-67. Cl. 198—19.

Arnold, James S., J. A. Kochly, V. Salmon, and C. T. Vincent, to Stanford Research Institute. Sound communication system. 3,328,753, 6-27-67, Cl. 340—15.

Arnold, James W. Emergency water reservoir. 3,331,510, 7-18-67, Cl. 210—187.

Arnold, Johannes: *See*—
Soenksen, Uwe, Bauer, Sanne, and Arnold. 3,350,340.

Arnold, John E.: *See*—
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Arnold, John L., R. L. Pearce, and H. G. Scholten, to The Dow Chemical Co. Gas drying process. 3,349,544, 10-31-67, Cl. 55—32.

Arnold, Karl F., to United States Steel Corp. Deflector roll repositioning assembly. 3,350,904, 11-7-67, Cl. 72—17.

Arnold, Kent B. Air switch in which a flexible diaphragm operates a dump valve in response to pressure changes. 3,341,673, 9-12-67, Cl. 200—83.

Arnold, Lloyd L. Multilevel building structure with plural suspended revolving compartment units and method of making same. 3,299,588, 1-24-67, Cl. 52—65.

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Arnold, Wayne R. 3,350,563.

Arnold, Orlan M.: *See*—
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Arnold, Orlan M., R. G. Millhiser, S. Pashaian, and E. Umbricht, to Ajem Laboratories, Inc. Filter apparatus. 3,347,378, 10-17-67, Cl. 210—106.

Arnold Otto, to Bell Telephone Laboratories, Inc. Limit detector with inductors connected in series aiding and mutual coupling to reduce parasitic inductance. 3,319,084, 5-9-67, Cl. 307—88.5.

Arnold, Perry C., H. A. Stanick, and L. V. Larsen, to Chicago Bridge & Iron Co. Welded joint of laminar construction and apparatus using same. 3,306,642, 2-28-67, Cl. 287—189.36.

Arnold, Roy T., to Sperry Rand Corp. Superconductive flux magnifier. 3,320,522, 5-16-67, Cl. 324—43.

Arnold, Sieghard, G. Buhrmann, J. Haasis, H. Heinrich, M. Nitschke, G. Schacht, and E. Spieth, to International Business Machines Corp. Print hammer unit for high speed printers. 3,359,921, 12-26-67, Cl. 101—93.

Arnold, Theodore M. Calculating device. 3,298,604, 1-17-67, Cl. 235—87.

Arnold, Walter, and K. Ostertag, to Vereinigte Glanzstoff-Fabriken AG. Electrostatic separation of long from short fibers. 3,329,264, 7-4-67, Cl. 209—128.

Arnold, Walter C., to Koppers Co. Shaft seal. 3,334,906, 8-8-67, Cl. 277—3.

Arnold, Walter C., to Koppers Co., Inc. Fifth wheel coupling for land vehicles. 3,337,277, 8-22-67, Cl. 308—136.

Arnold, Wayne E., to Westinghouse Electric Corp. Input signal sensing apparatus. 3,332,074, 7-18-67, Cl. 340—174.

Arnold, Wayne E., to Westinghouse Electric Corp. Time delay computer element for indicating input conditions. 3,348,070, 10-17-67, Cl. 307—88.5.

Arnold, Wayne R., deceased; M. H. Arnold, executrix, to Schlumberger Technology Corp. Neutron generating apparatus having a target containing both deuterium and tritium gases. 3,350,563, 10-31-67, Cl. 250—84.5.

Arnoldi, Walter E., to United Aircraft Corp. Three canister regenerative CO, system. 3,355,860, 12-5-67, Cl. 55—31.

Arnoldy, Hans., to North American Philips Co., Inc. Method of producing 2,2,6,6-tetrachlorocyclohexanone. 3,360,565, 12-26-67, Cl. 260—586.

Arnoldy, Roman F., to R. I. Patents, Inc. Dual arc welding. 3,296,408, 1-3-67, Cl. 219—76.

Arnoldy, Roman F. Open arc or gas shielded granular welding. 3,358,115, 12-12-67, Cl. 219—76.

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Polanleckl, Salomon. 3,316,478.
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Rosa, Richard J. 3,355,607.
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Silvers, John P., and Danis. 3,307,827.
Smith, Emile G. 3,310,937.
Stein, Wolfgang J., and O'Connor. 3,351,304.
Stott, Ted, Schulze, and Gunyou. 3,349,823.
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Hart, Thomas C. 3,352,162.
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Marchetti, John W., Goldberg, Ruze, and Slade. 3,307,188.
Avedikian, Araxia B. and S. Z. Dry ice cream mix composition and a method for producing same. 3,355,300, 11–28–67, Cl. 99—136.
Avedikian, Souren Z.: *See*—
Avedikian, Araxia B. and S. Z. 3,355,300.
Avedissian, Michael K., to Western Electric Co., Inc. Thermocompression bonding apparatus. 3,313,464, 4–11–67, Cl. 228—3.
Avellone, Richard C., to Republic Steel Corp. Process for applying cladding of stainless steel on steel base with aluminum bonding layer. 3,352,005, 11–14–67, Cl. 29—484.
Averette, Thomas P., ¼ each to J. R. Tweedy and S. Z. Daniels. Sheep foot tamper. 3,358,569, 12–19–67, Cl. 94—50.
Averill, Charles C., to Union Steel Products Co. Portable and collapsible stacking bins or crates. 3,349,939, 10–31–67, Cl. 220—6.
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Avery, Ray S. 3,332,829.
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Avery, Francis J., to General Aniline & Film Corp. Photoceramic process for producing vitrified photographic images. 3,341,327, 9–12–67, Cl. 96—34.
Avery, Harold B., to I.R. Associates, Inc. Flat iron support and holder. 3,305,200, 2–21–67, Cl. 248—117.6.
Avery, Howard W., to General Electric Co. Fluid amplifier shift register circuit. 3,350,008, 10–31–67, Cl. 235—201.
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Engelbach, Thomas J. 3,343,978.
Hamilton, Robert G., and Dickard. 3,310,900.
Turner, Stanley. 3,300,543.
Avery, Ray S., to Avery Adhesive Products Inc. Article for multiplicate marking. 3,332,829, 7–25–67, Cl. 161—33.
Avery, Ray S., to Avery Adhesive Products, Inc. Laminar means for changing color in response to embossment. 3,340,135, 9–5–67, Cl. 161—120.
Avery, Robert C., to International Telephone and Telegraph Corp. Trouble recorder. 3,329,965, 7–4–67, Cl. 346—107.
Avery, Robert C., and A. Majlinger, to Bell Telephone Laboratories, Inc. Telephone signal reporting system. 3,299,211, 1–17–67, Cl. 179—5.
Avery, Robert T., to Varian Associates. Electron accelerator with specific deflecting magnet structure and X-ray target. 3,360,647, 12–26–67, Cl. 250—49.5.
Avery, William H. Temperature measuring device. 3,312,108, 4–4–67, Cl. 73—359.
Avey, Spencer E., to TRW Inc. D.C. energized constant speed drive for an A.C. motor. 3,346,796, 10–10–67, Cl. 318—341.
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Avila, Jesse. Chimney anchor strap. 3,299,593, 1–24–67, Cl. 52—219.
Avilla, Thomas E.: *See*—
Burns, Robert L. 3,321,834.
Avins, Jack, to Radio Corp. of America. Tuning indicator system for multiplex radio receivers. 3,319,004, 5–9–67, Cl. 179—15.
Avins, Jack, to Radio Corp. of America. FM detector system suitable for integration in a monolithic semiconductor body. 3,355,669, 11–28–67, Cl. 329—103.
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Avisun Corp.: *See*—
Achon, Marco A. 3,303,175.
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Barkis, Edward, and Tluz. 3,297,782.
Davis, Donald M., Schreiber, and Sherman. 3,344,474.
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Jezl, James L., Khelghatian, and Hague. 3,303,179.
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Price, John A., and Watt. 3,313,791.
Price, John A. 3,328,375.
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Avrea, Walter C. Wheel mounting lubrication cartridge. 3,336,998, 8–22–67, Cl. 180—88.
Avrea, Walter C. Transmission case cover. 3,347,341, 10–17–67, Cl. 184—1.
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Avril, Michel, R. Moreau, and A. Pages, to Commissariat a l'Energie Atomique. Devices for analyzing physical phenomenons, and in particular nuclear phenomenons. 3,345,616, 10–3–67, Cl. 340—172.5.
Avril, Michel, R. Moreau, and A. Pages, to Commissariat a l'Energie Atomique. Binary magnetic recording system. 3,354,446, 11–21–67, Cl. 340—174.1.
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Axe, Joel H., to Bunker-Ramo Corp. Frequency responsive receiving system with noise prevention. 3,341,815, 9–12–67, Cl. 340—171.
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Axelson, Jule C., to Axelson Fishing Tackle Mfg. Co. Fishing rod for conventional fishing and spin fishing, and non-fouling line guides incorporated therein. 3,315,400. 4–25–67. Cl. 43—24.

Axelsson, Folke A., to Airspace, Inc. Panel forming apparatus. 3,311,948. 4–4–67. Cl. 18—4.

Axelsson, Folke A. Foam panel making apparatus. 3,328,836. 7–4–67. Cl. 18—4.

Axelsson, Folke A., to Airspace, Inc. Building structure with panel supports and a foundation. 3,343,321. 9–26–67. Cl. 52—296.

Axelsson, Karl O., to Aktiebolaget Rosenblads Patenter. Method of condensing blow-off steam in sulphate pulping. 3,325,970. 6–20–67. Cl. 55—48.

Axelsson, Sture I.: *See*—
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Axenborg, Carl E., to Saab Aktiebolag. Positioning and restraining means for ejection seat occupant. 3,334,847. 8–8–67. Cl. 244—122.

Axmark, Roger E., to Honeywell Inc. Flame detector utilizing an ultra-violet sensitive geiger tube. 3,342,995. 9–19–67. Cl. 250—83.6.

Axon, Arnold, H. M. Hood, and S. B. Gander, to Burroughs Wellcome & Co. (U.S.A.) Inc. Process for preparing sodium antimonylgluconate. 3,306,921, 2–28–67, Cl. 260—446.

Axon, Gordon L.: *See*—
Awe, Richard W., Pail, and Axon. 3,355,395.

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Heitler, Emmett H., Axtell, Fujioka, and Winter. 3,306,403.

Axthammer, Ludwig, and F. Wossner, to Fichtel & Sachs A.G. Self-leveling hydropneumatic suspension unit. 3,353,816. 11–21–67. Cl. 267—64.

Ayad, Kamal N., to Monsanto Chemicals Ltd. Accelerating vulcanization of rubber with aminoalkyl halophenyl sulfides. 3,312,672. 4–4–67. Cl. 260—79.5.

Ayad, Kamal N., to Monsanto Chemicals Ltd. Vulcanization with heptasulfur imide. 3,357,958. 12–12–67. Cl. 260—79.5.

Ayad, Kamal N., and A. J. Neale, to Monsanto Co. Vulcanization accelerators. 3,346,544. 10–10–67. Cl. 260—79.5.

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Glass, Marvin I., Ayala, and Barlow. 3,299,763.

Ayala, Carl, to H. Fishlove & Co. Novelty and amusement brush member. 3,314,677. 4–18–67. Cl. 272—8.

Aycock, Harry T., III, and A. J. Lavoie, to United States of America, Navy. Circuit means to adjustably gate and time share two modes of intelligence signals. 3,344,356. 9–26–67. Cl. 328—67.

Aycock, William C., to Thiokol Chemical Corp. Method for initiating or quenching the combustion in a solid propellant rocket motor. 3,354,647. 11–28–67. Cl. 60—220.

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Ayer, Donald E., and J. E. Pike, to The Upjohn Co. Steroidal [16,17-d]-2'isoxazolines of the pregnane series. 3,349,084. 10–24–67. Cl. 260—239.55.

Ayer, Donald R., and W. R. Lowe, to Sanders Associates, Inc. Variable phase shifter. 3,316,509. 4–25–67. Cl. 333—31.

Ayer, Ronald M.: *See*—
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Ayers, Alan M., to United States of America, Atomic Energy Commission. Pressure sensitive switch. 3,358,605. 12–19–67. Cl. 102—81.

Ayers, Charles C., and J. R. Garrett. Checking device. 3,329,175. 7–4–67. Cl. 139—164.

Ayers, David T., Jr., to Kelsey-Hayes Co. Automatic brake adjuster. 3,339,679. 9–5–67. Cl. 188—79.5.

Ayers, David T., Jr., to Kelsey-Hayes Co. Drum brake with automatic adjuster. 3,358,794. 12–19–67. Cl. 188—79.5.

Ayers, David T., Jr., to Kelsey-Hayes Co. Automatic brake adjuster. 3,360,083. 12–26–67. Cl. 188—79.5.

Ayers, David T., Jr., to Kelsey-Hayes Co. Automatic brake adjuster. 3,360,084. 12–26–67. Cl. 188—79.5.

Ayers, David T., Jr., and W. T. Birge, to Kelsey-Hayes Co. Brake wear indicator. 3,298,466. 1–17–67. Cl. 188—1.

Ayers, Earl D.: *See*—
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Ayers, Maurice D. Process for producting shaped thin articles from metal powder. 3,328,166. 6–27–67. Cl. 75—214.

Ayers, Maurice D., to Metal Innovations, Inc. Production of powder, strip and other metal products from refined molten metal. 3,334,408. 8–8–67. Cl. 29—420.5.

Ayers, Peter, to The British Aluminium Co. Method for continuously casting materials. 3,324,932. 6–13–67. Cl. 164—89.

Ayers, Peter, to The British Aluminium Co. Ltd. Apparatus for continuous heat treatment of sheet or strip material. 3,355,159. 11–28–67. Cl. 266—3.

Ayers, Peter, and A. G. Furness, to The British Aluminium Co. Ltd. Manufacture of metal pellets. 3,333,949. 8–1–67. Cl. 75—.5.

Ayers, Ralph L. Protective cover for telephone and telegraph distributing frame terminal blocks. 3,329,927. 7–4–67. Cl. 339—198.

Ayers, Robert C., Jr., and J. V. Kehoe, to Chas. Pfizer & Co., Inc. Process for de-ashing basic antibiotics. 3,313,694. 4–11–67. Cl. 167—65.

Ayers, Walter R., to Varian Associates. Traveling wave tube apparatus. 3,317,780. 5–2–67. Cl. 315—3.5.

Ayers, William M., to The Dow Chemical Co. Consolidation in incompetent stratum. 3,327,783. 6–27–67. Cl. 166—33.

Aykanian, Ardashus A.: *See*—
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Aykanian, Ardashus A., to Monsanto Co. Method of foaming a predeterminal surface area on a plastic article. 3,324,210. 6–6–67. Cl. 264—45.

Aykanian, Ardashus A., W. Hing, and M. H. Wohl, to Monsanto Co. Color gradated laminates. 3,354,025. 11–21–67. Cl. 161—199.

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Aylesworth, Robert D., and R. H. Boehringer, to Emery Industries, Inc. Blends of ester lubricants. 3,309,318. 3–14–67. Cl. 252—56.

Aylesworth, Robert D., C. F. Huber, and H. C. Foulks, Jr., to Emery Industries, Inc. Linear polymeric polyester vinyl resin plasticizers and plasticized compositions. 3,330,789. 7–11–67. Cl. 260—22.

Aylett, Bernard J., and G. M. Burnett. Polymeric compounds containing silicon-nitrogen bonds. 3,318,823, 5–9–67, Cl. 260—2.

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Harnish, James R., and Ayling. 3,299,661.

Aylor, Elmo E.: *See*—
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Aylott, Eric V., to Eylure Ltd. Cosmetic brushes. 3,296,642. 1–10–67, Cl. 15—185.

Aymar, Julian R. Flash holder for cameras. 3,309,513, 3–14–67, Cl. 240—1.3.

Ayotte, Robert A., to Wheaton Plastics Co. Dispensing container and closure therefor. 3,315,851, 4–25–67, Cl. 222—559.

Ayotte, Robert A., and R. J. Musel, to Wheaton Plastics Co. Container closure with axial plug. 3,318,496, 5–9–67, Cl. 222—546.

Ayotte, Ronald D., to Sylvania Electric Products, Inc. Mercury dispenser. 3,348,588, 10–24–67, Cl. 141—61.

Ayres, Charles A.: *See*—
Hutto, John F., Dixon, Davison, Ayres, Renberg, and Queen. 3,345,285.

Ayres, Douglas B.: *See*—
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Ayres, John E.: *See*—
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Ayres, John E. Operating mechanism for cigarette lighter. 3,303,673. 2–14–67, Cl. 67—7.1.

Ayres, John L.: *See*—
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Ayres, Reginald J., and P. Vargo, to General Electric Co. Double-ended electric lamp and associated U-shaped metal clip. 3,320,466. 5–16–67, Cl. 313—318.

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Azbukin, Jury I., N. M. Portnov, V. J. Avrukh, V. D. Kozorezov, and M. I. Mitelman. Gas-cooled rotor of electric generator. 3,322,985. 5–30–67. Cl. 310—61.

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Moiso, Ugo, and Papa. 3,309,354.
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Azoplate Corp.: *See*—
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Hoegl, Helmut, and Schlesinger. 3,307,940.
Kluppel, Kurt-Walter, Tomanek, and Endermann. 3,309,990.
Lind, Erwin. 3,315,599.
Munder, Johannes, and Sus. 3,316,087.
Naumann, Gerhard, and Endermann. 3,303,401.
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Stepann, Hartmut, Neugebauer, and Rebenstock. 3,311,605.
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Tomanek, Martha. 3,315,600.
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Azuma, Toshiro: *See*—
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Azuma, Yasuo: *See*—
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Azur Associates: *See*—
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Azzarito, Rocco. Shoe sling. 3,314,090, 4–18–67, Cl. 12—1.

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B–D Laboratories Inc.: *See*—
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BLH Electronics, Inc.: *See*—
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Brackett, Anthony H., Jr., and Frith. 3,303,450.
Laimins, Eric, and Senour. 3,303,695.
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BOMAG Bopparder Maschinenbaugesellschaft m.b.H.: *See*—
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BOT Brassert Oxygen Technik A.G.: *See*—
Bashford, Roy W. 3,350,196.

BP Tanker Co., Ltd.: *See*—
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B. & S. Plastic Art, Inc.: *See*—
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BSR Ltd.: *See*—
Lane, Norman. 3,322,428.
Smith, Hubert C. 3,359,629.
Walker, Ronald. 3,329,434.

BSW Mfg. Co., Inc.: *See*—
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BTR Industries Ltd.: *See*—
Goward, Stanley H. 3,333,325.

B/W Controller Corp.: *See*—
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B & W Inc.: *See*—
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Solum, James R. 3,343,608.
Solum, James R. 3,358,768.

B & W Mfg. Co., Inc.: *See*—
Boser, Ronald J. 3,349,734.

B.X. Plastics Ltd.: *See*—
Heans, John M. 3,297,791.

Baak, Albert E. Thermal switch having a pivotally mounted temperature responsive member with a lateral portion for translating a movable switch actuator. 3,296,401, 1–3–67, Cl. 200—138.

Baak, Albert E. Thermostat with heat anticipator. 3,339,043, 8–29–67. Cl. 200—122.

Baak, Nils T. E. A., to Owens-Illinois, Inc. Method for controlling the rate of devitrification. 3,295,944, 1–3–67, Cl. 65—29.

Baak, Nils T. E. A., to Owens-Illinois, Inc. Means for generating an electromotive force. 3,298,872, 1–17–67, Cl. 136—205.

Baak, Nils T. E. A., to Owens-Illinois, Inc. Method of and article formed by sealing alumina ceramic to a metal with a sealant glass. 3,331,731, 7–18–67, Cl. 161—196.

Baak, Nils T. E. A., to Owens-Illinois, Inc. Process for bonding devitrified surfaces. 3,346,357, 10–10–67, Cl. 65—33.

Baak, Nils T. E. A., and R. H. Simmons, to Owens-Illinois Inc. X-ray diffraction goniometer wherein the specimen is stationary and the source and detector are movable. 3,322,948, 5–30–67, Cl. 250—51.5.

Baalsrud, Gunnar, to Collett & Co. A/S. Device for facilitating the inspection of tablets. 3,301,068, 1–31–67, Cl. 73—432.

Baas, Willem: *See*—
Einthoven, Willem G., and Baas. 3,344,323.

Baatrup, Johannes V., to Danfoss ved ing. M. Clausen. Thermocouple comprising planar sheet metal strip lead having a forward end which envelopes the other lead to form a hot junction and gas oven comprising said thermocouple. 3,333,838, 8–1–67, Cl. 263—40.

Baatz, Richard J. Fence post insulator. 3,300,577, 1–24–67, Cl. 174—163.

Baba, Hirotoshi: *See*—
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Babany, Lucien: *See*—
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Babayan, Vigen K., to Drew Chemical Corp. Sterile mono- and di-glyceride pharmaceutical vehicle product for water and/or oil-soluble therapeutic substances. 3,331,742, 7–18–67, Cl. 167—82.

Babb, Burton A., to International Telephone and Telegraph Corp. High density packaging for electronic components. 3,305,706, 2–21–67. Cl. 317—101.

Babb, James W., L. Fussell, Jr., M. P. Mims, and H. E. Grier, to United States of America, Atomic Energy Commission. Cam operated magnetic switch. 3,307,005, 2–28–67, Cl. 200—153.

Babb, Richard C.: *See*—
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Babcock, Clarence L., to Owens-Illinois, Inc. Colored glasses and process of manufacture. 3,326,702, 6–20–67, Cl. 106—52.

Babcock, David L., to Eastman Kodak Co. Take-up reel for motion-picture projector. 3,298,625, 1–17–67, Cl. 242—71.8.

Babcock, Douglas C.: *See*—
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Cartwright, Victor F. 3,353,179.
Juptner, William F., and Rueb. 3,337,707.

Babcock, Eugene W., and R. A. Vascik, to Libbey-Owens-Ford Co. Glass sheet support frame. 3,347,655. 10–17–67, Cl. 65—375.

Babcock, John C.: *See*—
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Babcock, John C., and J. A. Campbell, to The Upjohn Co. 7-methyltestosterones. 3,341,557. 9–12–67, Cl. 260—397.3.

Babcock, John C., and J. A. Campbell, to The Upjohn Co. 16-methylene-17α-hydroxy progesterones and derivatives thereof. 3,359,287, 12–19–67, Cl. 260—397.4.

Babcock, Leonard V., D. A. Massa, and R. H. Chiovari, to Warwick Electronics Inc. Convergence yoke assembly with blue purity magnet and converge magnets adjustable from one direction. 3,349,268, 10–24–67, Cl. 313—77.

Babcock, Robert S. Card holder. 3,323,801, 6–6–67, Cl. 273—150.

Babcock & Wilcox Co., The: *See*—
Ammon, Johannes H. 3,330,097.
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Boe, Harvey A., and Kassner. 3,301,225.
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Davis, Fred W. 3,320,176.
Dewell, Edgar H. 3,320,178.
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Babel, Louis, and P. Peytavin, to Societe Civile dite: Societe Civile d'Etudes de Centrifugation. Apparatus for effecting the continuous rotary casting of hollow steel blanks. 3,353,587, 11–21–67, Cl. 164—281.

Baber, Claude, to The Flexicore Co., Inc. Air pressure control for casting cores. 3,306,568, 2–28–67, Cl. 249—65.

Babin, Marta, ½ to D. Godfrey. Pivotally mounted support means. 3,305,204, 2–21–67, Cl. 248—278.

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Babits, Victor A., to General Dynamics Corp. Laser mixer and IF amplifier. 3,350,566, 10–31–67, Cl. 250—199.

Baboz, Jean, to Societe d'Optique et de Mecanique de Haute Precision. Photogrammetric plotter. 3,349,491, 10–31–67, Cl. 33—20.

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Babson, Arthur L., to Warner-Lambert Pharmaceuticals Co. Process for differentiating the iso-enzymes of lactic dehydrogenase. 3,326,777, 6–20–67, Cl. 195—103.5.

Babson Bros. Co.: *See*—
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Babson, Edward S., to United Shoe Machinery Corp. Conveyor systems. 3,296,979, 1–10–67, Cl. 104—172.

Babson, Edward S., to United Shoe Machinery Corp. Conveyor control apparatus. 3,301,381, 1–31–67, Cl. 198—34.

Babson, Henry B., to Babson Bros. Co. Pulsator timer. 3,317,685, 5–2–67, Cl. 200—19.

Babunovic, Momir, and J. C. Goessmann, to Barry-Wehmiller Machinery Co. Discharge deflector for container dischargers. 3,305,065, 2–21–67, Cl. 198—25.

Babunovic, Momir, and V. M. Stapf, to Barry-Wehmiller Co. Separator apparatus for fluid entrained solids. 3,322,283, 5–30–67, Cl. 210—167.

Babushkin, Svjatoslav G., to Leningradskoje Objedinenije Optiko-Mekhanicheskikh. Control device for lens focal length variation and camera actuating. 3,328,114, 6–27–67, Cl. 352—140.

Baby Line Furniture Corp.: *See*—
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Babylon, Richard H., to Frick Co. Shell and tube heat exchanger. 3,321,013, 5–23–67, Cl. 165—158.

Babylon, Richard H., to Frick Co. Aerosol probe. 3,321,726, 5–23–67, Cl. 338—34.

Bac, Fernand G. Quick release electrical connector. 3,295,-868, 1–3–67, Cl. 285—27.

Bac, Fernand G. Electrical connections. 3,360,764, 12–26–67, Cl. 339—45.

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Moore, Arthur H., and Bacevius. 3,341,701.

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Bach, Walter H. 3,301,712.
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Bach, Berg, G. C. Susong, and R. W. Harrold, to The Magnavox Co. Wire cutting and forming device. 3,336,954, 8–22–67, Cl. 140—105.

Bach, Frederick L., Jr.: *See*—
English, Jackson P., Bach, and Gordon. 3,321,478.
English, Jackson P., Bach, and Gordon. 3,330,831.
English, Jackson P., Bach, and Gordon. 3,330,832.

Bach, Frederick O., to A. B. Dick Co. Offset master preparation and elements. 3,310,404, 3–21–67, Cl. 96—33.

Bach, Friedemann, to A. Troll. Grid construction. 3,325,078, 6–13–67, Cl. 229—15.

Bach, Harold E.: *See*—
Fisher, Simon, Bach, De Agostino, and Roth. 3,308,262.

Bach, Hartwig C., and J. Preston, to Monsanto Co. Polyamides prepared from 5,5'-diaminoindigo. 3,354,120, 11–21–67, Cl. 260—47.

Bach, Jose C., to Industrias Cervello, S.A. Sprayer. 3,343,-797, 9–26–67, Cl. 239—355.

Bach, Ricardo O., to Lithium Corp. of America, Inc. Lithium oxide having active absorption capacity for carbon dioxide and method of preparing same. 3,321,277, 5–23–67, Cl. 23—184.

Bach, Richard E.: *See*—
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Bach, Robert D., to E. I. du Pont de Nemours and Co. Bowling ball. 3,353,825, 11–21–67, Cl. 273—63.

Bach, Walter H., to Bach Auricon, Inc. **Battery adapter.** 3,301,712, 1–31–67, Cl. 136—173.

Bach, Walter H., to Bach Auricon, Inc. Video tape recording apparatus utilizing transversely scanning erase and record heads. 3,320,371, 5–16–67, Cl. 179—100.2.

Bach, Walter H., and G. H. Koester, to Bach Auricon, Inc. Reverse polarity protection circuit. 3,313,995, 4–11–67, Cl. 320—25.

Bache, John K., and H. Aston, to George Salter and Co. Ltd. Compensator devices for improving the extension characteristics of coil extension springs. 3,326,545, 6–20–67, Cl. 267—61.

Bachelet, Albert E., to Bell Telephone Laboratories, Inc. Trunk group peg count totalizer. 3,324,241, 6–6–67, Cl. 179—8.6.

Bacher, Gottlob, and R. Barth, to Robert Bosch, G.m.b.H. Windshield wiper for vehicles. 3,320,628, 5–23–67, Cl. 15—250.36.

Bacher, Helmut: *See*—
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Bacher, Leo O., to McAx Corp. Insulated joint for panel walls. 3,353,318, 11–21–67, Cl. 52—403.

Bachhuber, Theodore J. Self-adjusting recrimping die for shotgun shell reloaders. 3,347,128, 10–17–67, Cl. 86—39.

Bachi, Herbert. Rotary fluid flow machine. 3,306,574, 2–28–67, Cl. 253—39.15.

Bachle, Carl F., to Continental Aviation and Engineering Corp. Cylinder head construction. 3,316,888, 5–2–67, Cl. 123—41.69.

Bachle, Carl F., and R. E. Carney, to Continental Aviation and Engineering Corp. Variable compression ratio piston and valve. 3,311,096, 3–28–67, Cl. 123—78.

Bachler, Marilyn J., L. A. Lindenfelser, and O. L. Shotwell, to United States of America, Agriculture. Almarcetin and its production by streptomyces albus. 3,332,847, 7–25–67, Cl. 167—65.

Bachler, Werner G., to Leybold Holding AG. Vacuum pump apparatus. 3,317,122, 5–2–67, Cl. 230—101.

Bachler, Werner G., and H. J. Forth, to Leybold Holding AG. Diffusion vacuum pump apparatus. 3,342,405, 9–19–67, Cl. 230—101.

Bachley, Peter V. Collapsible catamaran. 3,303,520, 2–14–67, Cl. 9—1.

Bachman, David H. Loose leaf notebook binder. 3,315,682, 4–25–67, Cl. 129—1.

Bachman, George S. Element for measurement of furnace wall thickness and temperature. 3,307,401, 3–7–67, Cl. 73—359.

Bachman, Guy E.: *See*—
Waidelich, William G., Whittaker, and Bachman. 3,331,-235.

Bachman, John L., to United States of America, Navy. Electromechanical transducer. 3,341,798, 9–12–67, Cl. 338—47.

Bachman, Leonard J.: *See*—
Coulter, Stanley M., and Bachman. 3,332,674.

Bachman, Walter S., Jr., W. A. Erhardt, Jr., and E. V. Surprenant, to United-Carr Inc. Work movable mechanism. 3,331,544, 7–18–67, Cl. 226—147.

Bachman, William E.: *See*—
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Backman, William O. Packingless in-line valve. 3,322,138, 5–30–67, Cl. 137—219.

Bachman, William S., to Columbia Broadcasting System, Inc. Phonograph record reproducing apparatus. 3,301,565, 1–31–67, Cl. 274—24.

Bachman, William S., S. C. Moore, H. M. Rollins, and W. R. Garrett, to Drilco Oil Tools, Inc. Well bore apparatus. 3,298,449, 1–17–67, Cl. 175—76.

Bachman, William S., L. K. Kosowsky, and J. W. Deaso, to Columbia Broadcasting System, Inc. Plasticizing apparatus with automatic temperature controlling means. 3,354,-501, 11–28–67, Cl. 18—2.

Bachmann, Claus: *See*—
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Bachmann, Dittmar, H. Gerstenberg, K. Grafen, and E. Pászthory, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for continuous preparation of condensation polymers. 3,337,508, 8–22–67, Cl. 260—75.

Bachmann, Emil H. Stand for optical instruments. 3,335,989, 8–15–67, Cl. 248—158.

Bachmann, Horst, to Maschinenfabrik Hasenclever A.G. Apparatus for the heading of elongated workpieces. 3,347,081, 10–17–67, Cl. 72—342.

Bachmann, Klaus: *See*—
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Bachmann, Marcel. Crane cable way for slopes with a single pulling and hoisting cable passing through the trolley. 3,311,243, 3–28–67, Cl. 212—87.

Bachmann, Wilhelm: *See*—
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Bachmann, William E.: *See*—
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Bachmann, William V., to Chrysler Corp. Swivel seat for motor vehicle. 3,322,458, 5–30–67, Cl. 296—65.

Bachmann, William V., to Chrysler Corp. Swivel seat for motor vehicle. 3,338,622, 8–29–67, Cl. 296—65.

Bachner, Robert L.: *See*—
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Bachnick, Werner, to Telefunken Patentverwertungs, G.m.b.H. UHF-VHF combined arcuate tuner. 3,314,011, 4–11–67, Cl. 325—459.

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Bachus, Benson F., to Western Electric Co. Inc. Strand cooling apparatus. 3,295,163, 1–3–67, Cl. 18—12.

Bachus, Benson F., to Western Electric Co., Inc. Method of making cellular articles. 3,300,554, 1–24–67, Cl. 264—47.

Back, Frank G. Optical system for color television camera. 3,333,053, 7–25–67, Cl. 178—5.4.

Back, Leonard: *See*—
Bergstein, Frank D., Kleingers, and Back. 3,309,438.

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Backman, Marvin E.: *See*—
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Backmark, Nils-Erik, to North American Philips Co., Inc. Tunable electronic tube. 3,343,031, 9–19–67, Cl. 315—39.55.

Backstein, Gunter: *See*—
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Backus, Alfred J.: *See*—
Harrison, Thomas L., and Backus. 3,322,600.

Backus, Alfred S., to Mycalex Corp. of America. Method and apparatus for assisting in the measurement of surface flatness. 3,325,904, 6–20–67, Cl. 33—174.

Backus, Owen F., and H. I. Morris, to United Aircraft Corp. Method of producing indicia-bearing surfaces. 3,317,318, 5–2–67, Cl. 96—36.

Bacon, Eldrid H. Carrier for use with vehicle seats. 3,295,-887, 1–3–67, Cl. 297—188.

Bacon, Ernest N., to Nova Scotia Research Foundation. Fish product method of making. 3,301,686, 1–31–67, Cl. 99—111.

Bacon Felt Co.: *See*—
Becker, William E. 3,348,256.

Bacon, Henry S. Land vehicle provided with collision resistant safety features. 3,331,460, 7–18–67, Cl. 180—1.

Bacon, James R., to Burroughs Corp. Complex pattern generation apparatus. 3,325,802, 6–13–67, Cl. 340—324.

Bacon, James R., to Burroughs Corp. Tunnel diode associative memory. 3,332,067, 7–18–67, Cl. 340—172.5.

Bacon, James R., to Burroughs Corp. Photo-optical light pen and amplifier. 3,334,236, 8–1–67, Cl. 250—217.

Bacon, Leslie R.: *See*—
Sproule, Francis R., and Bacon. 3,310,494.

Bacon, Oliver M., to The Hunnewell Soap Co. Process for preparing a coagulant from pyrophyllite and clarifying water with it. 3,350,303, 10–31–67, Cl. 210—47.

Bacon, Oliver M., to The Hunnewell Soap Co. Water treatment compositions and processes. 3,350,304, 10–31–67, Cl. 210—52.

Bacon, Roger, G. E. Cranch, R. O. Moyer, Jr., and W. H. Watts, to Union Carbide Corp. Process for manufacturing flexible carbonaceous textile material. 3,305,315, 2–21–67, Cl. 23—209.1.

Bacon, Roger J., to FMC Corp. Articulated vehicle with pivotable frame steering. 3,299,982, 1–24–67, Cl. 180—52.

Bacon, Sidney H.: *See*—
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Bacon, Stuart A. Concrete bucket hook assembly. 3,311,401, 3–28–67, Cl. 294—83.

Bacon, Wilfred H., to Canadian Arsenals Ltd. Target feedback radar system. 3,303,498, 2–7–67, Cl. 343—7.5.

Bacon, Wilfred H., H. G. Byers, and M. Katchky, to Canadian Arsenals Ltd. Broadband linear slot antenna with impedance matching network. 3,303,505, 2–7–67, Cl. 343—771.

Bacon, William D., Jr., to General Electric Co. Electrical device with voltage limiting arrangement. 3,334,271, 8–1–67, Cl. 317—16.

Bacon, William E., to The Lubrizol Corp. Halogenation of pentavalent-phosphorus compounds-polyvalent metal halide complexes with polyhalomethanes. 3,305,570, 2–21–67, Cl. 260—448.

Bacon, William E., to The Lubrizol Corp. Process of preparing tertiaryaryl phosphine sulfides. 3,305,589, 2–21–67, Cl. 260—606.5.

Bacon, William E., and N. A. Meinhardt, to The Lubrizol Corp. Process for preparing phosphinates. 3,356,773, 12–5–67, Cl. 260—978.

Bacrolx, Marcel A., to Centre de Recherches de Pont-A-Mousson. Method and device for manufacturing metal tubes by helically coiling a sheet metal strip. 3,314,141, 4–18–67, Cl. 29—477.3.

Bacsanyi, Thomas: *See*—
Gipperich, Lawrence F., Bacsanyi, and Sheldon. 3,323,-252.

Bacskai, Robert, to Chevron Research Co. Copolymers of alpha-monoolefins and omega-halo-mono-alpha-olefins. 3,311,600, 3–28–67, Cl. 260—87.5.

Bacskai, Robert, to Chevron Research Co. Copolymers of 1-alkenes and 1-alkenes having an -N-substituent. 3,314,928, 4–18–67, Cl. 260—87.5.

Bacskai, Robert, to Chevron Research Co. Copolymerization with α,ω-dienes. 3,351,621, 11–7–67, Cl. 260—88.2.

Bacs-Kiskun Megyei Finommechanikai Vallalat: *See*—
Cser, Karoly. 3,306,151.

Bacso, Imre, and P. A. Diassi, to E. R. Squibb & Sons, Inc. 4α,8,14-trimethyl-18 nor-5α,8α,9β,13α,14β androstane-3,11, 16,17-tetrone. 3,347,879, 10–17–67, Cl. 260—397.3.

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Bada Co., The: *See*—
Bageman, James C., Bonessa, and Roe. 3,326,051.

Bada, Toyoaki, N. Tanaka, and M. Kabata, to Fuji Iron and Steel Co., Ltd. Arc welding process. 3,307,014, 2–28–67, Cl. 219—137.

Badalich, Frank C., to Bell & Howell Co. Slide projector support for rotary slide tray. 3,339,668, 12–26–67, Cl. 40—79.

Badcock, David N. W., to Kango Electric Hammers Ltd. Power-operated percussive tools. 3,334,693, 8–8–67, Cl. 173—109.

Baddour, Raymond F., to Avco Corp. Electrothermal process for producing acetylene and carbon black. 3,333,927, 8–1–67, Cl. 23—209.3.

Baddour, Raymond F., and A. S. Michaels, to Amicon Corp. Permeable membrane and method of making same for use in a paraxylene separation. 3,299,157, 1–17–67, Cl. 260—674.

Bade, Alfred G., to The Falk Corp. Speed reducer mounting assembly. 3,326,503, 6–20–67, Cl. 248—14.

Bade, Erich: *See*—
Muller, Heinz-Gert, and Bade. 3,317,201.

Bade, Heinz E.: *See*—
Möhrke, Walter, and Bade. 3,298,585.

Bade, Heinz E., to Joh. F. Behrens, Maschinenfabrik. Staple driving apparatus. 3,320,860, 5–23–67, Cl. 91—461.

Bade, Werner, and A. N. Seideman, to Pallam Development Corp. Container structure. 3,317,038, 5–2–67, Cl. 206—62.

Badelt, Robert L., to Collins Radio Co. Adjustable center tap resistor. 3,329,921, 7–4–67, Cl. 338—308.

Badenseewerk Perkin-elmer & Co. G.m.b.H.: *See*—
Konig, Eberhard, and Rodel. 3,315,517.

Bader, Alfred, B. E. Graham, and E. Reif, to Heidenheimer Chemisches Laboratorium. 2,2'-alkylenebisbenzimidazoles. 3,337,578, 8–22–67, Cl. 260—309.2.

Bader, Alfred R., to Aldrich Chemical Co., Inc. 6-ammoniopurinides. 3,310,561, 3–21–67, Cl. 260—252.

Bader, Eberhard, to MAN-Turbo G.m.b.H. Fuel igniter for a jet turbine engine afterburner. 3,318,091, 5–9–67, Cl. 60—39.82.

Bäder, Erich: *See*—
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Bader, Erich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Method of adhesively joining surfaces. 3,321,351, 5–23–67, Cl. 156—332.

Bader, Erich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Polychloroprine adhesives. 3,333,025, 7–25–67, Cl. 260—880.

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Bader, George, to General Cable Corp. Apparatus including capacitance means for measuring ionization in high voltage cable under conditions of heavy external interference. 3,346,808, 10–10–67, Cl. 324—54.

Bader, George, and G. S. Eager, Jr., to General Cable Corp. Cable insulation test apparatus including a fluid containing cylindrical test bushing having a plurality of electrodes and condenser stacks positioned along a pair of insulating tubes connecting the electrodes. 3,346,809, 10–10–67, Cl. 324—54.

Bader, Henry, to American Cyanamid Co. Method of preparing trisubstituted triazines. 3,344,137, 9–26–67, Cl. 260—240.

Bader, Howard E., to McDonnell Douglas Corp. Cargo handling system. 3,357,372, 12–12–67, Cl. 105—369.

Bader, I. Walton: *See*—
Bader, Maximilian and I. W. 3,309,719.

Bader, John. Hydrofoils and retraction mechanism therefor. 3,343,513, 9–26–67, Cl. 114—66.5.

Bader, John. Seaplane docking system. 3,354,855, 11–28–67, 114—43.5.

Bader Machinery Co. Ltd.: *See*—
Jefferies, Frederick W. 3,337,934.

Bader, Maximilian and I. W. Combination playpen crib and dressing table. 3,309,719, 3–21–67, Cl. 5—98.

Bader, Robert E., to York Instrument Corp. Plural source fluid metering assembly with discharge assistant for each source. 3,339,804, 9–5–67, Cl. 222—135.

Bader, Stephen. Belt grinding and polishing machine. 3,335,-528, 8–15–67, Cl. 51—148.

Badertscher, Allen E. Filter cartridge for tobacco products. 3,304,944, 2–21–67, Cl. 131—267.

Badewitz, Charles J., to The Ryan Aeronautical Co. Terrain slope or pitch and roll computer. 3,337,867, 8–22–67, Cl. 343—7.

Badey, Paul E., and J. A. Oppel, to General Electric Co. High voltage electric circuit breaker with means or precisely coordinating the operation of widely spaced components. 3,350,519, 10–31–67, Cl. 200—48.

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Badger, Alfred E., and J. W. Herbert, to Libbey-Owens-Ford Glass Co. Apparatus for inhibiting upward rising bubbles in a molten metal bath. 3,334,983, 8–8–67, Cl. 65—182.

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Badger, George M. W., to Varian Associates. Electron tube with resonator tuning by deformation of an internal tubular member. 3,305,802, 2–21–67, Cl. 333—83.

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Badger, Joe G., and A. A. Valdettaro, to Sarkes Tarzian, Inc. Tuning mechanism for television tuners. 3,316,770, 5–2–67, Cl. 74—10.8.

Badger Meter Mfg. Co.: *See*—
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Kullmann, Donald J. 3,308,664.

Badger, Robert E.: *See*—
Knudsen, Raymond G., Badger, and Zuzinec. 3,347,075.

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Standiford, Ferris C., Jr. 3,356,125.

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Badgley, Durward B., to Swift & Co. Method and apparatus for testing tenderness. 3,308,654, 3–14–67, Cl. 73—81.

Badgley, Durward B., to Swift & Co. Apparatus for electrophoretic fractionation of ampholytes. 3,355,375, 11–28–67, Cl. 204—299.

Badia, Frank A., and G. N. Kirby, to The International Nickel Co., Inc. Copper-base alloy and castings thereof. 3,347,666, 10–17–67, Cl. 75—157.5.

Badini, John A., and E. F. Yery, to Western Electric Co., Inc. Soldering apparatus. 3,357,621, 12–12–67, Cl. 228—47.

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Koenig, Karl-Heinz, Datow, Pommer, Jung, and Scholz. 3,301,902.
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Weidinger, Hans, Pommer, and Eilingsfeld. 3,326,750.
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Weissauer, Hermann. 3,336,283.
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Badowski, Walter. Shade roller fixture removing tool. 3,295,194, 1–3–67, Cl. 29—239.

Baecher, Bernard J., to United States of America, Navy. Three axis navigational apparatus. 3,310,986, 3–28–67, Cl. 74—5.34.

Baechli, George, to Lee-Norse Co. Belt tensioning apparatus. 3,303,925, 2–14–67, Cl. 198—208.

Baechtold, Robert L., to American Cyanamid Co. Water soluble envelope prepared from a graft polymer of alkyl acrylate on a polyvinyl alcohol/polyvinyl acetate co-polymer. 3,300,546, 1–24–67, Cl. 260—876.

Baeder, Donald L.: *See*—
Kelley, Joseph M., and Baeder. 3,320,155.

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Baehni, Thomas, to Baehni & Co. Electric wristwatch and electric power cell having electrode plates having one plate of projections fitting in apertures of another plate. 3,304,708, 2–21–67, Cl. 58—23.

Baehr, Hans-Dieter, to Kommanditgesellschaft Industrie-Bau Nord G.m.b.H. & Co. Outlet device for bunkers for bulk goods. 3,351,248, 11–7–67, Cl. 222—459.

Baehr, Michel. Method for forming plastic tube bottoms. 3,300,559, 1–24–67, Cl. 264—323.

Baehr, William H., B. J. Stein, and M. Weinberg, to United States of America, Navy. Power supply monitor and bus transfer switch. 3,337,742, 8–22–67, Cl. 307—64.

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Baer, Byron N., and W. C. Griffin, to Atlas Chemical Industries, Inc. Textile finish applicator. 3,347,207, 10–17–67, Cl. 118—33.

Baer, Donald G., A. S. Van Slyke, and R. C. Woofter, to General Motors Corp. Rectangular conductor harness means and attachments. 3,322,882, 5–30–67, Cl. 174—72.

Baer, Donald G., A. S. Van Slyke, and R. C. Woofter, to General Motors Corp. Rectangular conductor harness means and attachments. 3,329,785, 7–4–67, Cl. 200—68.

Baer, Erhardt, and K. Xylander. Process for purifying water using reforming of metal hydroxide flocculation agent. 3,347,786, 10–17–67, Cl. 210—45.

Baer, Hans. Window and frame structure. 3,360,030, 12–26–67, Cl. 160—101

Baer, Herman W., to Phillips Petroleum Co. Container inverter. 3,300,064, 1–24–67, Cl. 214—1.

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Baer, James I. Material handling apparatus and the like. 3,343,864, 9–26–67, Cl. 294—99.

Baer, John, to Precision Specialties, Inc. Magnetic spring clutch assembly. 3,349,880, 10–31–67, Cl. 192—84.

Baer, John S., to Precision Specialties, Inc. Writing instrument. 3,326,189, 6–20–67, Cl. 120—42.03.

Baer, Josef, to Bucyrus-Erie Co. Collapsible wedge for cable connection. 3,335,470, 8–15–67, Cl. 24—126.

Baer, Karl, M. Decker, J. Schmidt, H. Sperber, and G. Leibner, to Badische Anilin- & Soda-Farbrik Aktiengesellschaft. Production of aliphatic dinitriles. 3,324,165, 6–6–67, Cl. 260—465.2.

Baer, Karl, H. Sperber, O. Goehre, and G. Leibner, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of catalysts or catalyst carriers in the form of hollow beads. 3,347,798, 10–17–67, Cl. 252—448.

Baer, Massimo, to Monsanto Co. Blends of polystyrene and a graft copolymer of a styrene-methyl methacrylate type mixture on a rubbery polymer of a conjugated 1,3-diene. 3,300,545, 1–24–67, Cl. 260—876.

Baer, Massimo, to Monsanto Co. Novel interpolymers. 3,313,790, 4–11–67, Cl. 260—80.5.

Baer, Massimo, and E. H. Hankey, to Monsanto Co. Blends of vinyl chloride polymer and hydrocarbon elastomer containing graft copolymer as compatibilizer. 3,312,756, 4–4–67, Cl. 260—876.

Baer, Massimo, and E. H. Hankey, to Monsanto Co. Vinyl chloride polymers containing elastomer and graft copolymer as compatibilizer. 3,316,327, 4–25–67, Cl. 260—876.

Baer, Massimo, and M. J. Vignale, to Monsanto Co. Novel anionic polymers of certain insoluble crosslinked polymers of a pKa value of at least 16 and alkali and alkaline earth metals. 3,316,223, 4–25–67, Cl. 260—80.5.

Baer, Ralph H., to Sanders Associates, Inc. Indicator announcing system. 3,320,604, 5–16–67, Cl. 340—266.

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Baer, Samuel. Nasal clamp. 3,349,771, 10–31–67, Cl. 128—325.

Baerman Max. Permanent magnet bearing. 3,326,610, 6–20–67 Cl. 308—10.

Baermann, Walter P., A. V. Cooke, and E. A. Peterson, to Medical Supply Co. Sheath package. 3,301,394, 1–31–67, Cl. 206—63.2.

Baertschi, Peter, H.-R. Von Gunten, and H.-E. Zust, to Zur Forderung der Forschung an der Edgenossischen Technischen Hochsctrie, Gesellschaft. Method for reprocessing fuel elements with fissionable material in carbide form which are spent in nuclear reactors. 3,316,065, 4–25–67, Cl. 23—324.

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Bafford, Richard A., to Koppers Co., Inc. Organic polybrominated peroxides. 3,304,332, 2–14–67, Cl. 260—610.

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Bagby, Marvin O., and K. L. Mikolajczak, to United States of America, Agriculture. Alkali isomerization of crepenynic acid to 8,10,12-octadecatrienoic acid. 3,356,699, 12–5–67, Cl. 260—405.6.

Bagby, Percy R. Wire rope long splice and method of making. 3,356,397, 12–5–67, Cl. 287—78.

Bageman, James C., V. G. Bonessa, and N. M. Roe, to The Bada Co. Static balancing machine. 3,326,051, 6–20–67, Cl. 73—484.

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Bagge-Lund, Einar, to Faskeridirektoratets Kjemisk-Tekniske Forskningsinstitutt. Freezing of foodstuffs. 3,300,994, 1–31–67, Cl. 62—63.

Baggio, Raphael, and E. M. M. E. Voillaume, to American Bosch Arma Corp. Function computer. 3,324,282, 6–6–67, Cl. 235—61.6.

Baggs, Arthur E., Jr., to Polaroid Corp. Method and apparatus for manufacturing photographic products. 3,303,077, 2–7–67, Cl. 156—108.

Bagguley, Robert D., to Pullman Inc. Combination pneumatic and gravity discharge hopper arrangement. 3,360,302, 12–26–67, Cl. 302—52.

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Bagley, George E., and W. F. Goodyear, Jr. Vinyl asbestos composition stabilized with melamine and rosin. 3,314,906, 4–18–67, Cl. 260—27.

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Bagli, Jehan F., P. F. Morand, D. S. Irvine, C. Vezina, and K. Wiesner, to American Home Products Corp. Process for the preparation of equilin and intermediate obtained therein. 3,344,156, 9–26–67, Cl. 260—397.4.

Bagnard, Gus M., and K. J. Downs, to FMC Corp. Packing. 3,341,212, 9–12–67, Cl. 277—206.

Bagnasco, Gino, to Serge Elevator Co., Inc. Generator starter used in an elevator motor drive. 3,297,110, 1–10–67, Cl. 187—29.

Bagnetto, Lucien J., Jr., to Phillips Petroleum Co. Process for preparing a calcium-nickel phosphate catalyst. 3,298,966, 1–17–67, Cl. 252—437.

Bagno, Samuel M.: *See*—
Joerren, Ernest A., and Bagno. 3,335,043.

Bagno, Samuel M., to Specialties Development Corp. Electrical power supply and battery charges. 3,308,306, 3–7–67, Cl. 307—66.

Bagnulo, Luigi, to Prochind S.p.A. Rigid pipe connection. 3,331,621, 7–18–67, Cl. 285—47.

Bagnulo, Luigi. Device for branching-off a secondary piping having a certain diameter, from a main pipe having any diameter. 3,331,622, 7–18–67, Cl. 285—198.

Bagwell, Calvin C., to Continental Oil Co. Method and apparatus for production well completion. 3,295,603, 1–3–67, Cl. 166—12.

Bagwell, Charles C., Jr., and E. R. Stewart, to Institute of Textile Technology. Tapered filling quill. 3,307,801, 3–7–67, Cl. 242—118.3.

Bagwell, Richard S., Jr., to Radio Corp. of America. Record player apparatus. 3,307,852, 3–7–67, Cl. 274—23.

Bahl, James M., and R. E. Haight, to Deere & Co. Hydraulic control valve. 3,349,670, 10–31–67, Cl. 91—412.

Bahlo, Klaus W., to Crompton & Knowles-Malimo, Inc. Multiply fabrics and method for making same. 3,327,501, 6–27–67, Cl. 66—192.

Bahls, Gene C.: *See*—
Dick, Lloyd C., McNutt, and Bahls. 3,357,553.

Bahls, Gene C., F. C. McNutt, R. E. Price, V. Zidell, and L. C. Dick, to Brown Co. Unitized sealed layer carton load. 3,348,673, 10–24–67, Cl. 206—65.

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Boik, Hermann. 3,343,504.
Bahmuller, Wilhelm. Adjustable joint, especially for chairs, beds, cots, and the like. 3,304,107, 2–14–67, Cl. 287—99.
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Bick, Joseph A. 3,295,461.
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Bahniuk, Eugene, to The Weatherhead Co. Torque motor. 3,311,858, 3–28–67, Cl. 335—230.
Bahniuk, Eugene, to The Weatherhead Co. Flow control valve. 3,339,573, 9–5–67, Cl. 137—85.
Bahniuk, Eugene, T. Budzich, and J. L. Thompson, to The Weatherhead Co. Hydraulic steering control. 3,320,745, 5–23–67, Cl. 60—52
Bahniuk, Eugene, and J. L. Thompson, to The Weatherhead Co. Hydraulic steering system. 3,347,041, 10–17–67, Cl. 60—52.
Bahnsen, Erwin B., to Steiner American Corp. Towel dispensing apparatus. 3,323,848, 6–6–67, Cl. 312—38.
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Bahnson, Agnew H., Jr., and J. F. King, Jr., to The Bahnson Co. Doffer-donner mechanism for spinning machines and the like. 3,318,078, 5–9–67, Cl. 57—33.
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King, James F., Jr. 3,315,446.
King, James F., Jr., and Bahnson. 3,348,363.
King, James F., Jr., and Sloan, 3,321,896.
Bahout, Rene H. L., to Societe pour l'Equipement des Industries Chimiques-S.P.E.I. Chim.-Reunion des Anciens Etablissements Barbet, Egrot & Grange, Pingris & Mollet Fontaine. Valve tray apparatus. 3,325,155, 6–13–67, Cl. 261—113.
Bahout, Rene H. L., to Societe pour l'Equipment des Industries Chimiques-S.P.E.I. Chim-Reunion des Anciens Etablissements Barbet, Egrot & Grange, Pingris & Mollet Fontaine. Closure elements for plates for fluid exchange columns. 3,333,836, 8–1–67, Cl. 261—114.
Bahr, Donald W., to General Electric Co. Augmentation system for reaction engine using liquid fuel for cooling. 3,307,-355, 3–7–67, Cl. 60—39.71.
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Baldwin, George D., and D. Sakuta, to Truck-Lite Co., Inc. Adjustable mounting for vehicle lights. 3,341,802, 9–12–67, Cl. 339—21.

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Baldwin, Philip S., ½ to Fiat Societa per Azioni. Master cylinder. 3,300,973, 1–31–67, Cl. 60—54.6.

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Washburn, Robert M., and Baldwin. 3,341,478.

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Baldwin, Samuel L., to General Electric Co. Luminaire latching device. 3,297,865, 1–10–67, Cl. 240—147.

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Bales, William H., to Rosemount Engineering Co., Ltd. Resistance thermometer and method of making the same. 3,334,322, 8–1–67, Cl. 338—28.

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Ball, Frederick M., and J. H. Davis, to Eastman Kodak Co. Cellulose acyl ester film-forming composition. 3,313,639, 4–11–67, Cl. 106—171.

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Ball, James. Dredging method. 3,310,894, 3–28–67, Cl. 37—195.

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Ball, John D., and C. J. Charske, to Esso Production Research Co. Seismic system with a radio communications link connecting the recording and shot stations. 3,316,996, 5–2–67, Cl. 181—.5.

Ball, John D., deceased by V. D. Ball, executrix, and J. B. Pearson, to Esso Production Research Co. Apparatus for measuring travel time of seismic waves from the earth's surface to a given depth in the earth. 3,319,221, 5–9–67, Cl. 340—15.5.

Ball, John D., and W. D. Mounce, to Esso Production Research Co. Apparatus for converting lineal seismogram sections into an areally presented seismogram. 3,327,287, 6–20–67, Cl. 340—15.5.

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Ball, John F. Wire dispenser. 3,337,158, 8–22–67, Cl. 242—139.

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Ballester, Manuel, J. Castaner, and J. Riera; said Castaner and said Riera assors. to said Ballester. Perchlorinated hydrocarbon polymers and their preparation. 3,360,574, 12–26–67, Cl. 260—649.

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Baniel, Avraham M., and R. Blumberg, to Israel Mining Industries for Research and Development. Process for the recovery of phosphoric acid from aqueous reaction mixtures produced by the decomposition of tricalcium phosphate with hydrochloric acid. 3,304,157, 2-14-67, Cl. 23—165.

Baniel, Avraham M., R. Blumberg, and A. Alon. Process for preparation of substantially pure phosphoric acid. 3,338,674, 8-29-67, Cl. 23—165.

Banjavich, Mark P. Diving bell and decompression vessel combination and improved method for handling diving personnel. 3,323,312, 6-6-67, Cl. 61—69.

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Banks, Clarence K., to M & T Chemicals Inc. Novel plating process and composition. 3,338,725, 8-29-67, Cl. 106—1.

Banks, George W. High pressure valve having soft seating and balanced seal. 3,318,577, 5-9-67, Cl. 257—332.

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Banks, James R., to Encore Mfg. Corp. A-C power control circuit having a trigger means with a voltage breakdown device connected to the base of a unijunction transistor. 3,348,131, 10-17-67, Cl. 323—22.

Banks, Paul B., R. A. Fuessle, and J. G. McCarrell, to Western Electric Co. Methods of and apparatus for making wound capacitors. 3,339,252, 9-5-67, Cl. 29—25.42.

Banks, Robert L., to Phillips Petroleum Co. Conversion of propane to diisopropyl. 3,321,547, 5-23-67, Cl. 260—683.47.

Banks, Robert L., to Phillips Petroleum Co. Selective polymerization of isobutene. 3,340,319, 9-5-67, Cl. 260—677.

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Banning, Thomas A., Jr. Subscription television system using phase inverted video signals. 3,310,624, 3-21-67, Cl. 178—5.1.

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Banning, Thomas A., Jr. Pay television employing interfering sound signal. 3,336,439, 8-15-67, Cl. 178—5.6.

Banning, Thomas A., Jr. Stereoscopic television including means to select either three dimensional or two dimensional reception. 3,358,079, 12–12–67, Cl. 178—6.5.

Banning, Thomas A., Jr., and E. L. Ranseen, deceased (by A. J. Ranseen, executrix), to T. A. Banning, Jr. Transverse scan magnetic recording using a cathode ray tube recording means. 3,351,718, 11–7–67, Cl. 179—100.2.

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Bapseres, Pierre, and M. Blensan, to Societe Nationale des Petroles d'Aquitaine. Process for the preparation of organic disulphides. 3,314,999, 4–18–67, Cl. 260—608.

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Bantle, Alexander L., and L. G. Miles, to Microcard Corp. Machine for enlarging of printed microphotographs. 3,299,776, 1–24–67, Cl. 88—24.

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Netz, Norman, Bauman, Baranowski, and Freedman. 3,343,310.

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Barber, William A., to American Cyanamid Co. Method for preparing electrode from paste containing non-noble metal formate and mineral oil. 3,338,751, 8–29–67, Cl. 136—120.

Barber, William A., to American Cyanamid Co. Fuel cell electrolyte matrix. 3,342,642, 9–19–67, Cl. 136—86.

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Barber, William A., and N. T. Woodberry, to American Cyanamid Co. Fuel cell containing a metallized paper electrode. 3,328,205, 6–27–67, Cl. 136—86.

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Barbre, Charles O. Alkylamine anti-static surface treatment of plastic films. 3,359,126, 12–19–67, Cl. 106—186.

Barbu, Richard J., to Markbar Corp. Meat press. 3,344,467, 10–3–67, Cl. 17—38.

Barbuti, Renzo, to Karl Steiner S.p.A. Carriage for the conveyance of goods in bulk, chiefly intended for supermarkets and the like. 3,309,100, 3–14–67, Cl. 280—33.99.

Barch, Herbert W., and C. E. Valchar, to Pittsburgh Plate Glass Co. Method of press bending vertically supported glass sheets. 3,298,809, 1–17–67, Cl. 65—106.

Barch, Herbert W., and R. V. Posney, to Pittsburgh Plate Glass Co. Method of controlling heat application to glass to repair scored regions. 3,352,655, 11–14–67, Cl. 65—28.

Barchas, Myron: *See*—
Schwarez Morton, and Barchas. 3,345,295.

Barchenko, Arthur E. Electrical system. 3,307,078, 2–28–67, Cl. 317—99.

Barchet, Reinhold J., to Martin-Marietta Corp. Underwater loading of stores into water-based aircraft. 3,330,509, 7–11–67, Cl. 244—137.

Barchfeld, George F. Bracket arrangement. 3,355,133, 11–28–67, Cl. 248—236.

Barcita-Peruchena, Jose M. Feminine accessory receiving receptacles. 3,305,679, 2–21–67, Cl. 240—6.45.

Barclae, Anthony L., to Falcon Industries, Inc. Air vent device for sealed housings. 3,314,306, 4–18–67, Cl. 74—606.

Barclay, Denneth M.: *See*—
Negra, John S., and Barclay. 3,351,563.

Barclay, John L., and D. J. Hadley, to The Distillers Co. Ltd. Production of conjugated diolefines by oxidative dehydrogenation. 3,328,478, 6–27–67, Cl. 260—680.

Barclay, John L., E. J. Gasson, and D. J. Hadley, to The Distillers Co. Ltd. Production of unsaturated aliphatic nitriles. 3,340,291, 9–5–67, Cl. 260—465.3.

Barclay, John L., and E. J. Gasson, to The Distillers Co. Ltd. Production of conjugated diolefines. 3,346,659, 10–10–67, Cl. 260—680.

Barclay, Rodney, and R. C. Von Felten, to Memorex Corp. Combined reel and canister. 3,341,001, 9–12–67, Cl. 206—52.

Barclays Bank Ltd.: *See*—
Thomas, Basil A. 3,340,657.

Barcomb, James G., and E. T. Kozol, to International Business Machines Corp. Display system for a data processing unit. 3,323,119, 5–30–67, Cl. 340—324.

Barcroft, Francis T.: *See*—
MacPhail, Alexander C. B., Barcroft, and Milne. 3,297,574.

Barcus, Lester M., and J. F. Berry. Musical instrument utilizing piezoelectric transducer. 3,325,580, 6–13–67, Cl. 84—1.16.

Bard, Albert L., and W. B. Weed, to Armco Steel Corp. Apparatus for manufacturing treated grinding rods. 3,299,-682, 1–24–67, Cl. 72—100.

Bard, C. R., Inc.: *See*—
Serany, Frank J., Jr., and White. 3,329,261.
White, Edward J., Serany, and Stern. 3,299,442.

Bard, Charleton C., to Eastman Kodak Co. Phosphorous and maleic acid buffers for ferricyanide photographic bleaches. 3,342,598, 9–19–67, Cl. 96—60.

Bard, Charleton C., and J. A. Larkin, to Eastman Kodak Co. Non-silver halide reducing sulfonamide buffers for photographic developing solutions. 3,305,364, 2–21–67, Cl. 96—66.4.

Bard, Harry R., to American Can Co. End closure construction for reclosure type containers. 3,338,465, 8–29–67, Cl. 220—66.

Bard, Irving G., and R. S. Rogers, to Leeds & Northrup Co. Linearized analog-to-digital converters. 3,354,452, 11–21–67, Cl. 340—347.

Bard, John A., to The R. C. Mahon Co. Wall construction. 3,320,708, 5–23–67, Cl. 52—478.

Bard, John C., and E. V. Podebradsky, to Oscar Mayer & Co., Inc. Method of preparing packaged sliced bacon. 3,359,121, 12–19–67, Cl. 99—174.

Bard, Martin. Standard for shelf assembly. 3,339,751, 9–5–67. Cl. 211—176.

Bard Pharmaceuticals, Inc.: *See*—
Broh-Kahn, Robert H., and Galat. 3,355,356.

Bardash, Irwin: *See*—
Siekanowicz, Wieslaw W., Schilling, and Bardash. 3,340,484.
Siekanowicz, Wieslaw W., Schilling, and Bardash. 3,350,663.

Barday, Donald J. Method and apparatus for cleaning objects with solvent. 3,308,839, 3–14–67, Cl. 134—76.

Barden Corp., The: *See*—
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Barden Donald M., to Bryant Chucking Grinder. Cavitation minimizer. 3,300,969, 1–31–67, Cl. 60—52.

Barden, James L., to General Electric Co. Liquid diverting switch actuator. 3,305,659, 2–21–67, Cl. 200—172.

Bardenhagen, Dietrich, to Hauni-Werke Korber & Co. KG. Apparatus for manipulating rod shaped articles. 3,341,036, 9–12–67, Cl. 214—17.

Bardes, Charles R., and J. W. Williams, to Yarway Corp. Liquid phase detectors or condensate indicators. 3,357,247, 12–12–67, Cl. 73—306.

Bardgette, John J., to Esso Production Research Co. Method and apparatus for use in forming foundations. 3,314,240, 4–18–67, Cl. 61—53.5.

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Bento, Robert, Barditch, and Brooks. 3,359,504.
Merck, John W., and Barditch. 3,354,395.

Barditch, Irving F., to Westinghouse Electric Corp. Digital unilock gate structure. 3,302,079, 1–31–67, Cl. 317—235.

Bardocz, Arpad. Spectrum analysis with time-resolved spark spectra. 3,315,560, 4–25–67, Cl. 88—14.

Bardoneschi, Roland: *See*—
Muller, Georges, and Bardoneschi. 3,301,852.

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Barecki, Chester J., to American Seating Co. Telescoping chair. 3,316,014, 4–25–67, Cl. 297—35.

Barecki, Chester J., to American Seating Co. Vehicle seat. 3,323,835, 6–6–67, Cl. 297—445.

Barecki, Chester J., and W. S. Lindberg, to American Seating Co. Row seating. 3,318,635, 5–9–67, Cl. 297—446.

Barecki, Chester J., B. Henrikson, and W. R. Dufendach, to American Seating Co. Mast-supported selector tube and carrel in electronic study system. 3,330,955, 7–11–67, Cl. 250—199.

Barecki, Chester J., and W. E. Nordmark, to American Seating Co. Folding table. 3,349,728, 10–31–67, Cl. 108—131.

Barefoot, Thomas L., and I. E. Martin, Jr., to Roberts Co. Viscous damping for spindle. 3,321,902, 5–30–67, Cl. 57—135.

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Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Luggage carrier. 3,339,813, 9–5–67, Cl. 224—42.1.

Barenyi, Bela, and H. Renner, to Daimler-Benz Aktiengesellschaft. Instrument panel. 3,341,248, 9–12–67, Cl. 296—70.

Barényi, Béla, and B. Sacco, to Daimler-Benz Aktiengesellschaft. Motor vehicle. 3,352,597, 11–14–67, Cl. 296—28.

Bares, Edward F.: *See*—
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Bares, Edward F., and R. A. Haggard, to Big Dutchman, Inc. Flow control apparatus for elongated feed conveyors for animals. 3,302,617, 2–7–67, Cl. 119—52.

Bares, Jack A., and M. Osborn, to Milbar Corp. Bearing cup remover. 3,358,353, 12–19–67, Cl. 29—275.

Baresel-Bofinger, Rudolf. Knock down furniture connector. 3,331,623, 7–18–67, Cl. 287—20.92.

Barford, John C., P. F. Dias, and J. D. Glentworth, to Societe Anonyme de Machines Electrostatiques. Electrostatic powder application. 3,323,933, 6–6–67, Cl. 117—17.

Bargainer, James D., Jr., to Mobil Oil Corp. Transmission of well logging signals in binary or digital form. 3,309,521, 3–14–67, Cl. 250—83.3.

Bargen, David W., to Electro-Optical Systems, Inc. Computing transducer system. 3,358,511, 12–19–67, Cl. 73—398.

Bargen, David W., and B. O. Van Ness, to Motorola, Inc. Electric motor overheating protection circuit. 3,305,698, 2–21–67, Cl. 317—13.

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Barghini, Robert J., W. M. Westberg, and P. H. Carey, Jr., to Minnesota Mining & Mfg. Co. Cold weather face mask. 3,333,585, 8–1–67, Cl. 128—212.

Baribo, Lester E., to A. E. Staley Mfg. Co. Process for the production of glucoamylase. 3,298,926, 1–17–67, Cl. 195—66.

Barie, Walter P., Jr., to Gulf Research & Development Co. Esterification in the presence of the catalyst combinations tin dibasic acid carboxylates and either sulfuric, benzenesulfonic or toluene sulfonic acid. 3,341,570, 9–12–67, Cl. 260—475.

Barie, Walter P., Jr., and N. W. Franke, to Gulf Research & Development Co. Coating compositions comprising polymers of acrylic esters. 3,310,513, 3–21–67, Cl. 260—29.6.

Barie, Walter P., Jr., and N. W. Franke, Gulf Research & Development Co. Polyepoxy resin-blary anhydride composition. 3,324,081, 6–6–67, Cl. 260—47.

Barie, Walter P., Jr., and C. M. Selwitz, to Gulf Research & Development Co. Substituted benzyl succinic anhydride cured epoxy resin compositions. 3,326,856, 6–20–67, Cl. 260—476.

Barie, Walter P., Jr., N. W. Franke, and A. C. Whitaker, to Gulf Research & Development Co. Esterification in the presence of the catalyst combination tin dibasic acid carboxylates and tetrahydrocarbyl titanates. 3,332,983, 7–25–67, Cl. 260—475.

Barigant, Pierre, to L'Electronique Appliquee. Device for determining the modulus of young of visco-elastic materials. 3,319,460, 5–16–67, Cl. 73—67.2.

Baring, John A., to Honeywell Inc. Flash exposure meter. 3,349,666, 10–31–67, Cl. 88—23.

Baring, John A., to Honeywell Inc. Slide tray and slide actuator for a projecting apparatus. 3,359,667, 12–26–67, Cl. 40—79.

Baringer, Berlyn E., M. A. Hole, and J. A. Huber, to Collfeed Systems, Inc. Threading rail means for strip stock feeding apparatus. 3,331,542, 7–18–67, Cl. 226—91.

Barish, Benjamin J., to Barroughs Corp. Electrostatic page printer. 3,316,555, 4–25–67, Cl. 346—74.

Barish, Benjamin J. Holder for soap bar or other article. 3,338,540, 8–29–67, Cl. 248—212.

Barish, David T. Self-inflating wings. 3,298,635, 1–17–67, Cl. 244—35.

Barkalow, Clare E., and H. C. Daubert, Jr., to Lear Siegler, Inc. Control system for gyro-verticals. 3,318,161, 5–9–67, Cl. 74—5.34.

Barkalow, Dale E.: *See*—
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Barkan, Bernard R. Collapsible, portable freezer box. 3,347,060, 10–17–67, Cl. 62—457.

Barkan, Philip, and T. A. Burns, to General Electric Co. Hydraulic integrating apparatus using two different fluids. 3,333,189, 7–25–67, Cl. 324—76.

Barkdoll, Joseph P., H. R. Diamond, R. E. Shattuck, and D. H. Smith, to SCM Corp. Office machine with rotary carriage control member. 3,315,776, 4–25–67, Cl. 197—60.

Barke, Bernard A., and R. P. Oehrke, to Bell & Howell Co. Self-storing rear screen projector. 3,352,203, 11–14–67, Cl. 88—24.

Barkemeyer, Henry R., W. J. McAleer, and P. I. Pollak, to Merck & Co., Inc. Semiconductor process and products produced thereby. 3,306,713, 2–28–67, Cl. 23—315.

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Barker, Albert E. A., to A. Barker and Sons Ltd. Footwear. 3,298,116, 1–17–67, Cl. 36—17.

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Mann, John E., Barker, and Perks. 3,345,266.

Barker, Allan, and J. A. Dodd, to United Kingdom Atomic Energy Authority. Sheathed fuel plate assemblies for a nuclear reactor. 3,321,379, 5–23–67, Cl. 176—75.

Barker, Allan, A. G. Bool, and R. T. Ackroyd, to United Kingdom Atomic Energy Authority. Sheathed fuel plate assemblies for a nuclear reactor. 3,322,645, 5–30–67, Cl. 176—75.

Barker, Arthur F., to E. I. du Pont de Nemours and Co. Aerosol valve for food products. 3,336,000, 8–15–67, Cl. 251—212.

Barker, Arthur F., to E. I. du Pont de Nemours and Co. Aerosol tilt valve. 3,357,604, 12–12–67, Cl. 222—402.23.

Barker, Carl: *See*—
Coward, Todd L., and Barker. 3,332,874.
Coward, Todd L., and Barker. 3,332,878.
Coward, Todd L., and Barker. 3,332,879.

Barker, Charles E. Apparatus for repetitive application of a controlled force. 3,351,047, 11–7–67, Cl. 125—20.

Barker, Derek R.: *See*—
Barker, William H. and D. R. 3,329,163.

Barker, Ellis N. Animators for cameras. 3,351,414, 11–7–67, Cl. 352—84.

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Barker, Thomas D. and E. C. 3,337,346.

Barker, George. Grooved panel with load-bearing strips. 3,353,315, 11–21–67, Cl. 52—275.

Barker, George E., to Monsanto Co. Time proportioning control circuits. 3,311,834, 3–28–67, Cl. 328—1.

Barker, George E., to Monsanto Co. Sensory transducers. 3,331,245, 7–18–67, Cl. 73—313.

Barker, George E., and G. E. Lightner, to Monsanto Co. Differential pressure sensor. 3,331,248, 7–18–67, Cl. 73—398.

Barker, Graham I. Lid arrangement for vertical storage filing cabinet. 3,312,513, 4–4–67, Cl. 312—184.

Barker, Graham I. Latch for vertical storage filing cabinet. 3,312,514, 4–4–67, Cl. 312—184.

Barker, Graham I. End support and guide means for load supporting laths in vertical storage filing cabinet. 3,312,517, 4–4–67, Cl. 312—331.

Barker, Graham I. Bridge support for load supporting laths in vertical storage filing cabinet. 3,347,242, 10–17–67, Cl. 129—16.7.

Barker, Harlow J., W. L. Nickerson, and P. G. Rumball, to United Shoe Machinery Corp. Work guidance mechanisms. 3,337,212, 8–22–67, Cl. 271—1.

Barker, Horace H., Jr., R. L. Long, D. Rosello, G. J. Soldat, and T. D. Smith, to Douglas Aircraft Co., Inc. Cryogenic containers. 3,317,074, 5–2–67, Cl. 220—9.

Barker, John, J. R. Birt, E. Housby, and D. M. Gorman, to The English Electric Co. Ltd. Gas blast circuit breaker and operating means therefor. 3,358,105, 12–12–67, Cl. 200—148.

Barker, John L., to Laboratory For Electronics, Inc. Computer for dividing one variable quantity by another. 3,341,698, 9–12–67, Cl. 235—196.

Barker, John L., F. W. Hannula, and L. R. Pallat, to Laboratory for Electronics, Inc. Centralized digital traffic counting system for recording and control. 3,322,940, 5–30–67, Cl. 235—150.24.

Barker, John S., to British Cellophane Ltd. Wrapping of cylindrical rolls. 3,296,772, 1–10–67, Cl. 53—380.

Barker, Joseph K. Trailer or similar construction. 3,326,597, 6–20–67, Cl. 296—100.

Barker, Layle B.: *See*—
Brown, Donald L., and Barker. 3,302,350.
Brown, Donald L., and Barker. 3,321,878.

Barker, Leslie C. Structural joints. 3,323,819, 6–6–67, Cl. 287—189.36.

Barker, Lester R., to Electronic Standard Corp. of America. Microwave circuit termination. 3,324,424, 6–6–67, Cl. 333—22.

Barker, Lester R., to Electronics Standards Corp. of America. Microwave connector. 3,325,752, 6–13–67, Cl. 333—34.

Barker, Lester R., to Electronic Standards Corp. of America. Microwave push-on connectors. 3,336,566, 8–15–67, Cl. 339—143.

Barker, Lester R., to Electronic Standards Corp. of America. Microwave termination. 3,348,170, 10–17–67, Cl. 333—22.

Barker, Luther P., Jr. Fish hook. 3,333,359, 8–1–67, Cl. 43—43.6.

Barker, Philip E., and D. I. Lloyd, to National Research Development Corp. Countercurrent gas chromatography and gas/solid adsorption. 3,338,031, 8–29–67, Cl. 55—67.

Barker Poultry Equipment Co.: *See*—
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Barker, Robert S., to Halcon International, Inc. Production of cyclohexylamine. 3,346,636, 10–10–67, Cl. 260—563.

Barker, Ronald F.: *See*—
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Barker, Sydney W., to Nevale Ltd. Thread treating machines. 3,315,498, 4–25–67, Cl. 68—9.

Barker, Theodore L., and L. M. Hamrick, to Geo. J. Meyer Mfg. Co. Uncaser. 3,310,187, 3–21–67, Cl. 214—304.

Barker, Thomas D. and E. C. Food preparation. 3,336,859, 8–22–67, Cl. 99—409.

Barker, Thomas D. and E. C. Method of pan frying fowl. 3,337,346, 8–22–67, Cl. 99—107.

Barker, Thomas H., to Bell Telephone Laboratories, Inc. Modular fuse block assembly. 3,299,236, 1–17–67, Cl. 200—133.

Barker, Thomas H., R. C. Nance, and J. R. Shine, to Bell Telephone Laboratories, Inc. Electromechanical counter. 3,309,506, 3–14–67, Cl. 235—92.

Barker, Thomas H., R. C. Nance, and J. R. Shine, to Bell Telephone Laboratories, Inc. Counter resetting mechanism. 3,351,278, 11–7–67, Cl. 235—144.

Barker, William: *See*—
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Barker, William H. and D. R. Air flow controllers or dampers. 3,329,163, 7–4–67, Cl. 137—601.

Barker, William M., to General Signal Corp. Coded supervisory control system. 3,305,837, 2–21–67, Cl. 340—163.

Barkey, Kenneth T.: *See*—
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Barkey, Kenneth T., to Eastman Kodak Co. Polyester prepolymers and processes for their manufactures. 3,342,782, 9–19–67, Cl. 260—75.

Barkhau, Marvin L., to Owens-Illinois, Inc. Lubricant coating for glassware molds and equipment. 3,347,650, 10–17–67, Cl. 65—26.

Barkis, Edward, and T. M. Quinn, to Avisum Corp. Heat-sealable composite sheet. 3,297,477, 1–10–67, Cl. 117—138.8.

Barkis, Edward, and W. I. Tinz, to Avisun Corp. Coating composition of polyoxylalkylene ether of a 2-alkylidene diphenyl esterified with fumaric or maleic acid, and a polyglycidyl ether of a dihydric phenol. 3,297,782, 1–10–67, Cl. 260—835.

Barkley, Byron F., and W. H. Kibble. Extensible boom crane. 3,308,967, 3–14–67, Cl. 212—55.

Barkley, Byron F., and W. H. Kibbie. Extensible boom construction. 3,341,029, 9–12–67, Cl. 212—55.

Barkman, Erik F.: *See*—
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Barkow, William H., to Radio Corp. of America. Raster distortion correction. 3,346,765, 10–10–67, Cl. 315—27.

Barkow, William H., and R. M. Christensen, to Radio Corp. of America. Dynamic raster distortion correction circuit having four window magnetic circuit. 3,329,861, 7–4–67, Cl. 315—24.

Barks, Robert W., to Satellite Developing Corp. Diaper washer and storage receptacle. 3,318,119, 5–9–67, Cl. 68—132.

Barksdale, Bruner T. Rockable reclining chair construction. 3,295,885, 1–3–67, Cl. 297—84.

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Barksdale Valves: *See*—
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Barkstrom, Reynold, R. L. Sutton, and T. G. Drayer, to International Harvester Co. Corn picker. 3,320,730, 5–23–67, Cl. 56—15.

Barkstrom, Reynold, R. L. Sutton, and D. B. Carlson, to International Harvester Company. Combination corn shelling and cob grinding apparatus. 3,348,780, 10–24–67, Cl. 241—101.

Barlaro, Giacomo: *See*—
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Barlett, William F., to Stromberg-Carlson Corp. Common series double comparison circuit for a time division multiplex system. 3,334,331, 8–1–67, Cl. 340—146.2.

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Barloga, Albert M., and A. T. Morgan, to Inland Steel Co. Oxygen steelmaking. 3,316,082, 4–25–67, Cl. 75—12.

Barlow, Alan, to S. Smith & Sons (England) Ltd. Cases of the kind for containing electrical equipment. 3,316,452, 4–25–67, Cl. 317—99.

Barlow, Alan, to S. Smith & Sons (England) Ltd. Trays of the kind for use in mounting cases containing electrical equipment. 3,316,456, 4–25–67, Cl. 317—100.

Barlow, Boris V., to S. Smith & Sons Ltd. Manufacture of tube-like structures. 3,315,509, 4–25–67, Cl. 72—145.

Barlow, Conrad R. Nozzle and valve assembly. 3,297,260, 1–10–67, Cl. 239—533.

Barlow, Conrad R. Quick-disconnect latch. 3,307,866, 3–7–67, Cl. 292—113.

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Barlow, Donald W.: *See*—
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Savage, Harry A. 3,298,391.

Barlow, Gordon A.: *See*—
Glass, Marvin I., Ayala, and Barlow. 3,299,762.
Glass, Marvin I., Ayala, and Barlow. 3,299,763.
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Glass, Marvin I., Barlow, and Stan. 3,304,650.

Barlow, John C., and K. W. Cocksedge, to Bell Punch Co. Ltd. Totalisator equipment. 3,351,745, 11–7–67, Cl. 235—92.

Barlow, Lester P., to The Barlow Vapor Cooling Co. Internal combustion process and apparatus permitting the use of faster burning fuels than are normally used in high-compression automotive gasoline engines. 3,312,204, 4–4–67, Cl. 123—41.25.

Barlow, Robert E. Inflatable lifting device. 3,331,087, 7–18–67, Cl. 5—81.

Barlow, Sidney D.: *See*—
De Molin, Arrigo V., and Barlow. 3,337,124.

Barlow, Terrenge W. Method of making synthetic suede and product thereof. 3,312,586, 4–4–67, Cl. 161—109.

Barlow Vapor Cooling Co., The: *See*—
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Barlowe, Murray, to North American Philips Co., Inc. Heat dissipator with pivotable means to grip a semi-conductor device. 3,305,004, 2–21–67, Cl. 165—80.

Bar-Master, Inc.: *See*—
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Barmer Maschinenfabrik AG.: *See*—
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Causemann, Karl. 3,355,766.
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Schippers, Heinz, and Niemeyer. 3,349,488.
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Barnabe, Jean-Louis, D. Callies, and C. Loveque, to Societe de Recherches Techniques et Industrielles. Device for utilizing the osmotic pressure of a solution for the production of mechanical energy. 3,344,926, 10–3–67, Cl. 210—321.

Barnabeo, Austin E.: *See*—
Wynsira, John, Reinking, and Barnabeo. 3,305,528.

Barnaby, Roland E., Jr., to Rayline, Inc. Solder dispenser. 3,308,938, 3–14–67, Cl. 206—56.

Barnard, Brian: *See*—
Mabbs, Frank E., and Barnard. 3,341,291.

Barnard, Charles R. N., to Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Radio phase-comparison receivers. 3,348,225, 10–17–67, Cl. 343—112.

Barnard, Mark C. S., to The Rover Co. Ltd. Torque-transmitting means permitting relative radial expansion and contraction between a pair of coaxial driven and driving members. 3,311,204, 3–28–67, Cl. 192—41.

Barnard, Paul R. Feed mixing and processing mechanism. 3,318,228, 5–9–67, Cl. 99—235.

Barnard, Richard L.: *See*—
Cehnoweth, Dean B., and Barnard. 3,299,195.

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Barnas, Eugene F., and S. B. Richter, to Velsicol Chemical Corp. N-hydroxy(alkoxy)-N-alkyl-α-(O,O-dialkylphosphorothio(dithio)ates) - β - alkoxycarbonylpropionamides. 3,342,904, 9–19–67, Cl. 260—942.

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Barnby, Herbert A.: *See*—
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Barnby, Herbert A., deceased, by B. P. Barnby, executrix, to Owens-Illinois, Inc. Sterile food packaging operation. 3,332,788, 7–25–67, Cl. 99—182.

Barnby, Herbert A., deceased (by B. P. Barnby, executrix), to Owens-Illinois, Inc. Method and apparatus for sterile packaging. 3,356,510, 12–5–67, Cl. 99—182.

Barnd, John W. Multi-zone temperature control. 3,351,128, 11–7–67, Cl. 165—22.

Barnes, Alfred H., deceased (by M. C. Seham, executor), and C. G. Hadwick, to Union Carbide Corp. High temperature vacuum furnace. 3,350,495, 10–31–67, Cl. 13—31.

Barnes, Al-G, to Continental Oil Co. Non-destructive thickness measuring device. 3,339,403, 9–5–67, Cl. 73—67.9

Barnes, Allan B., Sr., and J. P. Lighted walking cane. 3,336,469, 8–15–67, Cl. 240—6.42.

Barnes, Ames E., to Thiokol Chemical Corp. Electromotive force rocket motor initiator. 3,338,134, 8–29–67, Cl. 89—1.808.

Barnes, Andrew F. Beet topping unit. 3,343,348, 9–26–67, Cl. 56—121.44.

Barnes, Arthur G., to British Aircraft Corp. (Operating) Ltd. Flight simulator display apparatus. 3,327,407, 6–27–67, Cl. 35—12.

Barnes, Bayard L., to The Mead Corp. Top opening carton. 3,315,870, 4–25–67, Cl. 229—37.

Barnes, Bernard B., to Woodward Governor Co. Alternator control system. 3,325,650, 6–13–67, Cl. 290—40.

Barnes, Charles A., F. S. C. Branco, W. R. Johnson, and A. C. Kirilouckas, to Minnesota Mining and Mfg. Co. High precision tape-transport mechanism. 3,326,440, 6–20–67, Cl. 226—188.

Barnes, Charles A., L. K. Jensen, and R. C. Satterfield, to Clark Equipment Co. Collapsible overhead guard for industrial lift truck. 3,336,074, 8–15–67, Cl. 296—102.

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Barnes, Charles R., and C. R. Geesner, to United States of America, Air Force. Process for plating interior surface of tubing with cadmium sulfide. 3,317,342, 5–2–67, Cl. 117—95.

Barnes, Creighton D., and J. M. Shaheen, to North American Aviation, Inc. Method of making a magnetic core storage device. 3,317,408, 5–2–67, Cl. 204—15.

Barnes, Creighton D., R. L. Ramont, R. H. Drew, and J. E. Smith, to North American Aviation, Inc. Magnetic core storage device having a single winding for both the sensing and inhibit function. 3,329,940. 7–4–67, Cl. 340—174.

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Barnes, Edgar S., to Eastman Kodak Co. Lens mounting alignment apparatus and method. 3,347,088, 10–17–67, Cl. 73—37.5.

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Astheimer, Robert W. 3,316,405.
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Barnes, Eugene F., and C. N. Urbanski, to Stewart-Warner Corp. 3,349,013, 10–24–67, Cl. 204—2.

Barnes, Fayette H. Metal fastener strip. 3,339,720, 9–5–67, Cl. 206—56.

Barnes, Garrett H., Jr., and R. L. Merker, to Dow Corning Corp. Organosilanols and method of preparation. 3,328,448, 6–27–67, Cl. 260—448.2.

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Barnes, John A., and H. C. Nora, to The Pillsbury Co. Two-stage cooking and dehydrating process for potatoes and like vegetables. 3,355,304, 11–28–67, Cl. 99—207.

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Barnes, Kenneth K., and B. L. Harriott, to Arizona Research Foundation, Inc. Apparatus with sensing mechanism for use in harvesting lettuce. 3,300,954, 1–31–67, Cl. 56—327.

Barnes, Laurence A., Jr., and R. E. Irons, to Melpar, Inc. Linear full wave detector. 3,304,509, 2–14–67, Cl. 329—101.

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Barnes, Wendell A., and N. W. Franke, to Gulf Research & Development Co. Vinyl chloride coating composition. 3,313,760, 4–11–67, Cl. 260—31.8.

Barnes, Wendell A., and N. W. Franke, to Gulf Research & Development Co. Stabilized vinyl chloride polymer. 3,313,761, 4–11–67, Cl. 260—31.8.

Barnes, Wendell A., and N. W. Franke, to Gulf Research & Development Co. Plasticized vinyl chloride polymers stabilized with an alkyl diphenylamine. 3,326,839, 6–20–67, Cl. 260—31.8.

Barnes, William L., to Standard Screw Co. Crankcase ventilating valve having rotatable metering plunger. 3,354,898, 11–28–67, Cl. 137—331.

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Barnet, Fredrick R., and S. P. Prosen, to United States of America, Navy. Glass reinforced plastics recoilless rifle. 3,298,279, 1–17–67, Cl. 89—1.814.

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Barnett, Charles W. H., to United States of America, Army. Piezoelectric wide bandpass filter with elliptical shape. 3,319,193, 5–9–67, Cl. 333—72.

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Barnett, George, and K. D. Drakeley, to Bakelite Xylonite Ltd. Phenol formaldehyde resins and cured friction elements therefrom. 3,326,843, 6–20–67, Cl. 260—38.

Barnett, Jose M., to Filtox S. A. Filter holder for smokers. 3,312,227, 4–4–67, Cl. 131—187.

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Barnett, Louis H., and H. P. Horton, to Loma Industries, Inc. Thermodynamic molding machine. 3,315,314, 4–25–67, Cl. 18—26.

Barnett, Louis H., and H. P. Horton, to Loma Industries, Inc. Molding mechanism and method. 3,341,896, 9–19–67, Cl. 18—26.

Barnett, Louis H., and R. Haynie, to Loma Industries, Inc. Locking device for injection molding apparatus. 3,353,221, 11–21–67, Cl. 18—43.

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Barnette, Stanley R. Method of making decorative panels. 3,306,956, 2–28–67, Cl. 264—1.

Barnette, Stanley R. Method of making plastic decorative sheet articles. 3,328,499, 6–27–67, Cl. 264—108.

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Barnette, William E.: *See*—
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Barnhardt, Jacob C., Sr. 3,298,508.

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Barnhart, Charles C., to The Dow Chemical Co. Method and apparatus for the preparation of thermoplastic resinous film. 3,341,643, 9–12–67, Cl. 264—95.

Barnhart, Charles C., and H. G. Ahlich, to The Dow Chemical Co. Method and apparatus for the preparation of thermoplastic resinous film. 3,355,531, 11–28–67, Cl. 264—95.

Barnhart, Clifford W., to Black, Sivalls & Bryson, Inc. Method for drying a fluid stream and reconcentrating the absorbent. 3,321,890, 5–30–67, Cl. 55—32.

Barnhart, Clifford W., to Black, Sivalls & Bryson, Inc. Method of and apparatus for drying a fluid stream and reconcentrating the absorbent. 3,347,019, 10–17–67, Cl. 55—32.

Barnhart, Edgar P., and E. Mitchell. Portable collapsible lightproof enclosure having exteriorly housed light source. 3,296,439, 1–3–67, Cl. 250—78.

Barnhart, Herbert D., and D. A. Stratton, to General Electric Co. Apparatus responsive to electrical energy supplied during a welding operation. 3,335,258, 8–8–67, Cl. 219—110.

Barnhart, Vilas A., to S. E. Moore Co., Inc. Safety switch for de-energizing a driving motor in the event of stoppage of a shaft driven thereby. 3,308,406, 3–7–67, Cl. 335—74.

Barnhouse, Paul L. Scrub puff. 3,343,196, 9–26–67, Cl. 15—209.

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Barnikel, Peter J., and R. P. Freedman, to General Dynamics Corp. System for dynamically adjusting the working roll separation in rolling mills. 3,355,925, 12–5–67, Cl. 72—244.

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Barns, Fred K., to The B. F. Goodrich Co. Plastic strip shrinking apparatus. 3,315,303, 4–25–67, Cl. 18—2.

Barnstead, John W., to General Electric Co. Dishwasher power unit housing and mounting means. 3,355,111, 11–28–67, Cl. 239—251.

Barnstead, John W., and R. C. Pressley, Jr., to General Electric Co. Anti-tip device. 3,322,480, 5–30–67, Cl. 312—276.

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Barnwell, Stephen D., and J. F. Palmer, to Bristol Siddeley Engines Ltd. Cooling means in combustors for gas turbine engines. 3,350,724, 12–26–67, Cl. 60—39.65.

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Schmitt, Karl, Disteldorf, and Baron. 3,337,633.

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Baron, Hector R.: *See*—
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Baron, Heinz. Surgical dressing and the like. 3,316,906, 5–2–67, Cl. 128—156.

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Baron, Robert R. Method of treating skin and reducing pore size. 3,297,536, 1–10–67, Cl. 167—90.

Baron, Sidney, to United States of America, Navy. Three-dimensional compensator for a two-dimensional sonar array. 3,311,871, 3–28–67, Cl. 340—6.

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Baron, Stanley C. Method and apparatus for opening bags. 3,325,962, 6–20–67, Cl. 53—29.

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Baron, Walter: Finger sucking preventive device. 3,334,625, 8–8–67, Cl. 128—133.

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Schmitt, Karl, Disteldorf, and Baron. 3,337,633.

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Barouh, Victor, to Eaton Allen Corp. Article for making carbon copies. 3,315,983, 4–25–67, Cl. 282—22.

Barr, Charles R., to Eastman Kodak Co. Light-sensitive photographic elements containing developing agent precursors. 3,295,978, 1–3–67, Cl. 96—76.

Barr, Courtland H., Jr.: *See*—
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Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr, to Courtland Laboratories. Process for making a dietary food product. 3,360,374, 12–26–67, Cl. 99—1.

Barr, David J., to Her Majesty's Postmaster General. Resilient wheels. 3,300,835, 1–31–67, Cl. 29—121.

Barr, David J., to Her Majesty's Postmaster General. Conveying equipment. 3,360,099, 12–26–67, Cl. 198—21.

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Barr, Dennis A., E. Nield, and J. B. Rose, to Imperial Chemical Industries Ltd. Copolymers of N-substituted malelmides. 3,352,832, 11-14-67, Cl. 260—78.

Barr, Frank X.: *See*—
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Barr, Harry S., Jr.: *See*—
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Barr, Hugh H. Combined carding and weaving. 3,343,569, 9-26-67, Cl. 139—11.

Barr, Irwin R., to AAI Corp. Grenade launching arrangement. 3,318,033, 5-9-67, Cl. 42—1.

Barr, John D., R. E. Reason, and P. F. T. C. Stillwell, to The Rank Organisation Ltd. Method and apparatus for assessing the coordinates of the centre of a roughly circular form relative to a fixed axis. 3,307,267, 3-7-67, Cl. 33—174.

Barr, John D., and R. F. Clifford, to Rank Precision Industries Ltd, trading as The Organisation Rank Taylor Hobson Division. Control mechanisms for adjusting the objectives of television or cinematograph cameras. 3,347,985, 10-17-67, Cl. 178—7.92.

Barr, John N., to Square D Co. Magnetic impulse generator. 3,315,104, 4-18-67, Cl. 310—29.

Barr, John T., to Pennsalt Chemicals Corp. Method for preparation of fluorine substituted dienes. 3,308,175, 3-7-67, Cl. 260—653.5.

Barr, John W.: *See*—
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 3,337,031.
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Barr, Courtland H., Sr., C. H. Barr, Jr., J. W. Barr, and Lucas. 3,326,206.

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Barr, Leslie: *See*—
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Barr, Luis D. Infant garment. 3,316,911, 5-2-67, Cl. 128—286.

Barr, Peter J. Apparatus for drying finely divided particles. 3,354,555, 11-28-67, Cl. 34—57.

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Barr, Robert S. Method and apparatus for separating continuous multi-part stock forms. 3,297,342, 1-10-67, Cl. 282—11.5.

Barr, Robert S. Portable calculating device. 3,311,298, 235-71, Cl. 235—71.

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Barr, Thomas A., Jr., R. F. Mayo, and T. G. Roberts, to United States of America, Army. Arc plasma generator with starter. 3,356,897, 12-5-67, Cl. 315—238.

Barr, Vernon L. Pipe joint seals. 3,301,567, 1-31-67, Cl. 277—108.

Barr, Weldon M. Vehicle trunk lid clothes carrier. 3,318,471, 5-9-67, Cl. 214—450.

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Barr, William R. Apparatus for mounting plastic lens for grinding. 3,333,369, 8-1-67, Cl. 51—277.

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Barradale, Eugene W. Combination catch and live bait container. 3,357,127, 12-12-67, Cl. 43—55.

Barradell-Smith, Richard, and J. R. McLaggan, to Pilkington Brothers Ltd. Apparatus for forming glass ribbon on molten metal with gas seal means. 3,351,451, 11-7-67, Cl. 65—157.

Barragan, Jacques. Program-controlled machine-tool system. 3,354,760, 11-28-67, Cl. 82—2.

Barrall, Edward M., II, and J. F. Gernert, to Chevron Research Co. High sensitivity differential thermal analysis apparatus and method. 3,339,398, 9-5-67, Cl. 73—15.

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Barrasso, Edward J.: *See*—
Nightingale, Eugene R., Jr., and Barrasso. 3,346,332.

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Barre, Wade E., and G. A. Culbertson, to Sylvania Electric Products, Inc. Component assembly holder with readily accessible terminals incorporated therein. 3,327,174, 6-20-67, Cl. 317—101.

Barrer, Richard M., P. J. Denny, and E. M. Flanigen, to Union Carbide Corp. Molecular sieve adsorbents. 3,306,922, 2-28-67, Cl. 260—448.

Barrett, Arthur L., to Joy Mfg. Co. Gas purifying apparatus. 3,334,686, 8-8-67, Cl. 165—155.

Barrett Bindery Co., The: *See*—
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Barrett, George F., to The Kamphausen Co. Reinforced pole structure and method of banding a reinforcing stub to a pole. 3,309,824, 3-21-67, Cl. 52—170.

Barrett, George F., to The Kamphausen Co. Method of and apparatus for pole reinforcing. 3,320,714, 5-23-67, Cl. 52—742.

Barrett, Herbert M., to Phillips Petroleum Co. Drilling fluid. 3,340,188, 9-5-67, Cl. 252—8.5.

Barrett, Herbert M., to Phillips Petroleum Co. Method and means for sealing leaks in buried conduits. 3,356,777, 12-5-67, Cl. 264—36.

Barrett, Homer D.: *See*—
Stow, George C., Jr., Mallonee, and Barrett. 3,343,363.

Barrett, John L.: *See*—
Bliss, Horace H., Lynch, and Barrett. 3,325,914.

Barrett, John R.: *See*—
Hiatt, William R., and Barrett. 3,336,514.

Barrett, John R., and H. A. Jensen, to General Electric Co. High efficiency semiconductor light emitter. 3,353,051, 11-14-67, Cl. 313—113.

Barrett, John S., to Lear Siegler, Inc. Ordnance firing device. 3,343,490, 9-26-67, Cl. 102—70.

Barrett-Kegel Corp.: *See*—
Kegel, Francis C. 3,355,231.

Barrett, La Vern H., to The Gorton Corp. Refrigeration apparatus for freezing a product under pressure. 3,320,768, 5-23-67, Cl. 62—303.

Barrett, Marlin W., D. G. Cramer, and R. B. Oltman, to Pittsburgh Plate Glass Co. Apparatus for forming ribbon with lateral force means. 3,350,188, 10-31-67, Cl. 65—165.

Barnett, Patricia: *See*—
Shreck, Peter K., and Barnett. 3,319,357.

Barrett, Paul C., and G. W. Stambaugh, to The General Tire & Rubber Co. Semi-automatic filling device. 3,310,078, 3-21-67, Cl. 141—348.

Barrett, Peter A.: *See*—
Darley, Reginald, and Barrett. 3,360,756.

Barrett, Peter J. Mounting device for a boat sail. 3,338,204, 8-29-67, Cl. 114—108.

Barrett, Randall M. Register regulator ald. 3,360,291, 12-26-67, Cl. 294—19.

Barrett, Richard A., and D. A. Polesky, to International Commodities, Inc. Swivel assembly rotatable through more than one revolution. 3,312,482, 4-4-67, Cl. 285—168.

Barrett, Richard C., to Allied Chemical Corp. Coal tar paving compositions and process for preparing them. 3,304,191, 2-14-67, Cl. 106—279.

Barrett, Richard C., to Allied Chemical Corp. Improved coal tar pitch composition. 3,304,192, 2-14-67, Cl. 106—280.

Barrett, Richard C., to Allied Chemical Corp. Oxychloropolyethylene coating. 3,356,638, 12-5-67, Cl. 260—33.8.

Barrett, Thomas, to International Exhibits, Inc. Water gun target with displaceable element. 3,342,492, 9-19-67, Cl. 273—102.1.

Barrett, Walter, to Prince-Smith and Stells Ltd. Brakes for textile spinning and like spindles. 3,313,097, 4-11-67, Cl. 57—88.

Barrett, Walter R., Jr. Electrocardiograph cushion. 3,323,514, 6-6-67, Cl. 128—2.06.

Barrett, Wayne T., L. V. Triggiani, and J. S. Magee, to W. R. Grace & Co. Method of treating exhaust gases. 3,322,491, 5-30-67, Cl. 23—2.

Barrett, Wesley H., and K. Law, to Dowty Mining Equipment Ltd. Roof support assembly. 3,355,898, 12-5-67, Cl. 61—45.

Barrett, William G., D. K. Johnson, and G. H. Thorne, Sr., to Sperry Rand Corp. Register including inter-stage multivibrator temporary storage. 3,320,410, 5-16-67, Cl. 235—175.

Barrho, Phillip G.: *See*—
Sowko, John J., and Barrho. 3,329,487.

Barrie, Ian T., to Imperial Chemical Industries, Ltd. Cables with 4-methyl pentene-1 primary insulation. 3,327,050, 6-20-67, Cl. 174—107.

Barrilleaux, Leo S., Jr., and N. G. Richard, to Southdown, Inc. Cane planting machine. 3,338,459, 8-29-67, Cl. 214—355.

Barringer, Anthony R., to Barringer Research Ltd. Method and apparatus for investigating structural geometry of a remote reflecting body. 3,311,914, 3-28-67, Cl. 343—17.2.

Barringer, Brian W.: *See*—
Reason, Richard E., and Barringer. 3,307,100.

Barringer, Brian W., to The Rank Organisation Ltd. Automatic gauge control systems. 3,306,087, 2-28-67, Cl. 72—9.

Barringer, Donald F., Jr., and G. Berkelhammer, to American Cyanamid Co. Lower alkoxy pyridyl acetones. 3,336,327, 8-15-67, Cl. 260—297.

Barringer, Donald F., Jr., and G. Berkelhammer, to American Cyanamid Co. Method of preparation of lower alkoxy piperidyl acetones by hydrogenation with rhodium in acid conditions. 3,338,909, 8-29-67, Cl. 260—293.2.

Barringer, Hubert P., to United States of America, Atomic Energy Commission. Damped bearing for centrifuges. 3,306,681, 2-28-67, Cl. 308—140.

Barringer Research Ltd.: *See*—
Barringer, Anthony R. 3,311,914.
Celeynse, Maarten. 3,317,744.

Barrington, Alfred E., R. F. Herzog, and W. P. Poschenrieder, to GCA Corp. Leak detection system which utilizes a sorption pump and a specific mass spectrometer detector. 3,342,990, 9-19-67, Cl. 250—41.9.

Barrington, Burchus Q.: *See*—
Farley, David L., and Barrington. 3,315,747.

Barrington, Burchus Q., to Halliburton Co. Apparatus for use in well bores. 3,347,318, 10-17-67, Cl. 166—226.

Barrios, Hector R.: *See*—
Nordberg, Robert C., and Barrios. 3,352,654.

Barrling, Gösta G. Device for cooling rectifiers. 3,328,644, 6-27-67, Cl. 317—100.

Barron, Archie N.: *See*—
Beevers, Billy G., Woodward, Crowe, and Barron. 3,314,477.

Barron, Archie N., C. W. Crowe, and B. L. Atkins, to The Dow Chemical Co. Gelled oxidizing agents, method of preparation and method of use in treating underground formations. 3,336,981, 8-22-67, Cl. 166—36.

Barron, Benjamin, to Lear Siegler, Inc. Voltage converter circuits with shiftable tap on primary winding. 3,350,620, 10-31-67, Cl. 321—2.

Barron, Benjamin, to Lear Siegler, Inc. Regulated power supply circuit. 3,356,927, 12-5-67, Cl. 321—18.

Barron, Edgar G.: *See*—
Smoot, George F., Rickly, and Barron. 3,309,710.

Barron, Edward R.: *See*—
Fujimaka, Edwin S., MacDonald, Barron, and Stewart. 3,318,024.
Lastnik, Abraham L., and Barron. 3,320,619.

Barron, Hollis M., to Agriform International Chemicals, Inc. Fertilizer tablet which rapidly disintegrates when watered and thereafter slowly releases its plant nutrients. 3,338,700, 8-29-67, Cl. 71—28.

Barron, James. Apparatus for bladder irrigation and medication. 3,329,147, 7-4-67, Cl. 128—230.

Barron, James D. Foldable ash tray. 3,342,317, 9-19-67, Cl. 206—37.

Barron, James O., J. T. Coomes, and R. D. C. Bone, to Shandon Scientific Co. Ltd. Chromatography. 3,352,221, 11-14-67, Cl. 95—11.

Barron, John N., to Graphic Electronics, Inc. Method and apparatus for relief paste-up process. 3,327,400, 6-27-67, Cl. 33—184.5.

Barron, Joseph E., and A. Soboleski, to United States Rubber Co. Agricultural chemical concentrates. 3,330,642, 7-11-67, Cl. 71—100.

Barron, Lawrence E., and A. G. Tsuk, to Schwarz Bioresearch Inc. Method and material for selective diffusion. 3,329,574, 7-4-67, Cl. 167—82.

Barron, Maurice. Welded mesh reinforcement and method of using same. 3,296,690, 1-10-67, Cl. 29—426.

Barroso, Angel L. Method for the mechanical tying of sausages and the like. 3,318,623, 5-9-67, Cl. 289—1.5.

Barrot, Paul M. E.: *See*—
Lemardeley, Claude Y. L., and Barrot. 3,300,149.

Barrot, Paul M. E., and C. Y. L. Lemardeley, to Societe Anonyme Babbitless. Gyratory crushers. 3,305,181, 2-21-67, Cl. 241—37.

Barrow Hepburn & Gale Ltd.: *See*—
Shand, Thomas G., and Clyde. 3,335,469.

Barrow, James E. File cabinet. 3,311,438, 3-28-67, Cl. 312—323.

Barrows, Frank: *See*—
Firestein, Harry, Theroux, Barrows, and Bouthillier. 3,331,345.

Barrows Industries, Inc.: *See*—
Basler, Joseph A. 3,334,855.
Fontaine, Ludger A. 3,345,830.

Barrows, Martin R. Fluid pressure actuated tube compressor valve. 3,322,147, 5-30-67, Cl. 137—595.

Barry, Austin W., to G-V Controls Inc. Control system for battery charging. 3,354,374, 11-21-67, Cl. 320—23.

Barry, Charles E.: *See*—
Nelson, Steven A. 3,302,648.

Barry, David T.: *See*—
Feder, Allen M., and Barry. 3,316,551.

Barry, Earl H., to Bay State Mop Wringer Co., Inc. Device for cleaning corner surfaces. 3,339,220, 9-5-67, Cl. 15—233.

Barry, George H. Spark plug having an auxiliary series spark gap in parallel with the main spark gap. 3,353,052, 11-14-67, Cl. 313—123.

Barry, Gerald J., and T. B. Harker, to The Magnavox Co. Cable dispensing and locking means. 3,336,892, 8-22-67, Cl. 114—206.

Barry, James E., Sr. Gauging fixture for stepped mircometer gauge. 3,295,217, 1-3-67, Cl. 33—170.

Barry, James S., ½ to International Paper Co., and ½ to The Stanley Works. Cover for freight vehicle. 3,330,225, 7-11-67, Cl. 105—377.

Barry, James S., ½ to International Paper Co. and ½ to The Stanley Works. Railway car door gasket. 3,354,841, 11-28-67, Cl. 105—424.

Barry, John K., to South Chester Corp. Door or panel fastener. 3,302,964, 2-7-67, Cl. 292—57.

Barry, Leonard D. Transfer device. 3,297,182, 1-10-67, Cl. 214—317.

Barry, Leonard D., to Ampex Corp. Magnetic tape recorder with recessed concave tape guide. 3,320,370, 5-16-67, Cl. 179—100.2.

Barry, Robert J., to Federal Tool Engineering Co. Connector for multi-contact relays and the like. 3,359,533, 12-19-67, Cl. 339—217.

Barry-Wehmiller Co.: *See*—
Babunovic, Momir, and Stapf. 3,322,283.
Vamvakas, Michael. 3,346,094.

Barry-Wehmiller Machinery Co.: *See*—
Babunovic, Momir, and Goessmann. 3,305,065.

Barry, William E.: *See*—
Ballard, Samuel S., Proctor, and Barry. 3,309,649.

Barry, William R. Rotating self-cleaning strainer. 3,338,416, 8-29-67, Cl. 210—297.

Barry, William R. Liquid dispensing quantity selector. 3,343,720, 9-26-67, Cl. 222—20.

Barsam, Arthur, Jr.: *See*—
Barsam, Arthur, Sr., and A. Barsam, Jr. 3,299,730.

Barsam, Arthur, Sr., and A. Barsam, Jr., to Cinex Inc. Rotary drive apparatus for rewind mechanisms. 3,299,730, 1-24-67, Cl. 74—421.

Barsch, Hermann, to Haas Vakuum-Technik G.m.b.H. Rotary dried. 3,296,709, 1-10-67, Cl. 34—82.

Barson, Fred: *See*—
Miller, William H., and Barson. 3,343,049.

Barson, Fred, and W. E. Mutter, to International Business Machines Corp. Combined transistor and testing structures and fabrication thereof. 3,335,340, 8-8-67, Cl. 317—235.

Barstow, Alfred G., and R. W. Burns. Said Burns assignor to said Barstow. Pump metering device. 3,302,577, 2-7-67, Cl. 103—38.

Barstow, Frederick C., and J. L. Reid, to Polaroid Corp. Photographic diffusion transfer products and processes employing image receiving elements containing a layer of polyvinyl pyrrolidone and polyvinyl hydrogen phthalate. 3,325,283, 6-13-67, Cl. 96—3.

Barstow, Laurence E., to American Metal Products. Cabinet latching mechanism. 3,297,376, 1-10-67, Cl. 312—219.

Barsukov, Arkadij: *See*—
Doudlebsky, Ctibor, Barsukov, and Nemec. 3,335,558.

Bart, George R., to Victor Comptometer Corp. Temperature compensated quartz crystal resonator. 3,349,258, 10-24-67, Cl. 310—8.5.

Bart, Loren R.: *See*—
Brandenberg, Karl A., and Bart. 3,357,675.

Bart, Roger: *See*—
Felton, Joseph B., Jr., Turner, Duncan, Funderburk, and Bart. 3,311,033.
Felton, Joseph B., Jr., Turner, Duncan, Funderburk, and Bart. 3,322,318.

Barta, Edward J.: *See*—
Graham, Robert P., Barta, and Morgan. 3,358,723.

Barta, Gerald T., J. R. Miskell, P. M. Jonas, and T. O. Quinn, to Indiana General Corp. Magnetizer-demagnetizer. 3,303,398, 2-7-67, Cl. 317—157.5.

Barta, Henry R.: *See*—
Woods, John P., Barta, Dransfield, and Riggs. 3,312,978.

Bartee, Thomas C., to Hickok Teaching Systems, Inc. Digital computer trainer. 3,309,793, 3-21-67, Cl. 35—10.

Bartelink, Dirk J., to Bell Telephone Laboratories, Inc. Solid state plasma acoustic amplifier with heat dissipating means. 3,343,097, 9-19-67, Cl. 330—5.

Bartelink, Dirk J., and G. E. Smith, to Bell Telephone Laboratories, Inc. Traveling-wave solid state plasma amplifier with charge flow constraining means. 3,336,532, 8-15-67, Cl. 330—5.

Bartels, Alfred F., and H. Kroger, to Nordischer Maschinenbau Rud. Baader. Method and apparatus for the fully automatic feed of fish to fish working machines. 3,348,260, 10-24-67, Cl. 17—2.

Bartels, Helmut, to Werner Bahlsen. Wall upholstering of storage spaces of cargo-carrying motor vehicles. 3,338,619, 8-29-67 Cl. 296—24.

Bartels, Henning G. Booster pump. 3,329,095, 7-4-67, Cl. 103—87.

Bartels, Herbert D., to Continental Can Co., Inc. Dispensing container and charging valve therefor. 3,337,091, 8-22-67, Cl. 222—95.

Bartels-Keith, James R., to Smith Kline & French Laboratories. New thebaine derivatives. 3,299,072, 1-17-67, Cl. 260—285.

Bartels-Keith, James R., to Smith Kline & French Laboratories. Intermediates for preparing thebaine derivatives. 3,322,771, 5-30-67, Cl. 260—285.

Bartels-Keith, James R., and M. Gordon, to Smith Kline & French Laboratories. N-cyclopropylmethyl benzmorphan derivatives. 3,351,626, 11-7-67, Cl. 260—294.3.

Bartelt Engineering Co., Inc.: *See*—
Beert, Carl J. 3,346,254.
Beert, Carl J., and Brogren. 3,335,840.
Beert, Carl J., Ludwig, and Nalley. 3,359,702.
Bjork, Elliott L., and Kern. 3,358,419.
Court, Wilbur M., and Ludwig. 3,330,090.
Granger, Howard J. 3,319,784.
Johnson, Kenneth R. 3,340,679.
Johnson, Kenneth R., and Beert. 3,319,539.
Lense, Robert F. 3,324,902.
Lense, Robert F. 3,335,768.
Martin, Le Roy L. 3,300,946.

Barter, Le Roy D., to Beckman Instruments, Inc. Oven temperature control stabilizing network. 3,349,223, 10-24-67, Cl. 219—413.

Barth, Benedict G.: *See*—
Le Roy, Chester E., Barth, Macrowski, and Takata. 3,330,000.

Barth, Bruce P., to Union Carbide Corp. Thermoplastic polyhydroxyethers modified by the addition of a blend of an epoxy resin and an amine blocked polyisocyanate. 3,321,549, 5-23-67, Cl. 260—830.

Barth Corp., The: *See*—
Sentz, Adam J. 3,319,829.
Sentz, Adam J. 3,334,938.

Barth, David E., to Art Metal, Inc. Filing drawer motion control. 3,330,613, 7-11-67, Cl. 312—331.

Barth, Johannes, to Veb. Wirkmaschinenbau Karl Marx-Stadt. Knitting machine having laterally deflectable needles. 3,331,218, 7-18-67, Cl. 66—35.

Barth, Manfred, G. Hummel, R. Blumenthal, and E. Puls. Resilient suspension for tractor seats and the like. 3,301,520, 1-31-67, Cl. 248—399.

Barth, Otto, deceased; by V. Barth, legal representative. Tilted stool. 3,312,437, 4-4-67, Cl. 248—158.

Barth, Robert: *See*—
Bacher, Gottlob, and Barth. 3,320,628.

Barth, Valerie: *See*—
Barth, Otto, and V. 3,312,437.

Bartha, Kenneth J.: *See*—
Schott, Arthur K., Bartha, and Rovoldt. 3,342,091.

Bartha, Szabolcs: *See*—
Kleiner, Juan E., and Bartha. 3,306,672.

Barthel, Alfred, to Union Carbide Corp. Double-walled container. 3,341,052, 9-12-67, Cl. 220—14.

Barthel, Gerhard: *See*—
Von Maydell, Wladimir, and Barthel. 3,326,624.

Barthel, Joachim: *See*—
Lange, Alfred, and Barthel. 3,298,825.

Barthel, Johann. Collapsibly supported platform with adjustable tensioning means. 3,356,366, 12-5-67, Cl. 272—65.

Barthel, Lucien. Acoustical enclosures. 3,319,737, 5-16-67, Cl. 181—31.

Barthel, Russell J.: *See*—
Dolan, Francis D., and Barthel. 3,325,848.

Barthelemy, Roger E. High voltage separation of fine particles. 3,308,948, 3-14-67, Cl. 209—127.

Barthold, Fred O. Converter-alternating current or direct current to alternating current, with continuously variable adjustment of output frequency and voltage. 3,360,710, 12-26-67, Cl. 321—9.

Bartholf, Francis B.: *See*—
Zaayenga, Ralph, and Bartholf. 3,349,052.

Bartholomew, Earl, to Ethyl Corp. Internal combustion engine fuel feeding system. 3,310,045, 3-21-67, Cl. 123—127.

Bartholomew, George A.: *See*—
Arvay, William J., Arvay, and Bartholomew. 3,298,822.

Barthule, George, to Liftex Slings, Inc. End terminal for fabric sling. 3,352,590, 11-14-67, Cl. 294—74.

Barthule, George, to Liftex Slings, Inc. Metal web sling. 3,360,293, 12-26-67, Cl. 294—74.

Bartik, William J., to Sperry Rand Corp. Toroidal core memory array. 3,305,848, 2-21-67, Cl. 340—174.

Bartik, William J., to Sperry Rand Corp. Signal translating devices utilizing sequentially operated storage diodes. 3,311,750, 3-28-67, Cl. 307—88.5.

Bartizal, John J., Jr. Force indicator for adjustable folding roller. 3,328,026, 6-27-67, Cl. 270—68.

Bartl, Herbert: *See*—
Glabisch, Dietrich, and Bartl. 3,297,618.
Hardt, Dietrich, and Bartl. 3,305,606.
Hardt, Dietrich, and Bartl. 3,358,054.
Hardt, Dietrich, Bartl, and Wust. 3,355,516.
Resz, Raoul, and Bartl. 3,296,231.
Schellenberg, Wolf-Dietrich, and Bartl. 3,325,460.

Bartleson, John D.: *See*—
Hinkamp, James B., Bartleson, and Irish. 3,356,707.

Bartlett, David S., Jr., to FMC Corp. Strap securing method. 3,316,687, 5-2-67, Cl. 53—33.

Bartlett, Edwin S.: *See*—
Bradley, Elihu F., Bartlett, Ogden, and Jaffee. 3,341,370.
Bradley, Elihu F., Jaffee, Williams, and Bartlett. 3,296,038.
Bradley, Elihu F., Jaffee, Williams, and Bartlett. 3,297,138.

Bartlett, Howard J., to Norton Co. Refractory compound and method of production. 3,348,925, 10-24-67, Cl. 23—315.

Bartlett, Jeffrey H.: *See*—
Kirshenbaum, Isidor, Hill, and Bartlett. 3,301,887.

Bartlett, John V., to Mott, Hay & Anderson. Tunnelling machine shield having fluid chrenlating bulkhead and rotary cutting head. 3,334,945, 8-8-67, Cl. 299—33.

Bartlett, Michael W.: *See*—
Brunton, James C., and Bartlett. 3,325,564.

Bartlett, Paul V.: *See*—
Kilfor, Harry T., Krebs, and Bartlett. 3,333,797.

Bartlett, Philip D., to Polaroid Corp. Apparatus for holding a photosensitive sheet in a film package with an inflatable bag. 3,327,115, 6-20-67, Cl. 250—68.

Bartlett, Philip D., H. E. Erikson, and J. F. Sadlow, to Polaroid Corp. Photographic processing apparatus. 3,344,730, 10-3-67, Cl. 95—89.

Bartlett, Roscoe G., Jr. Mask-to-mask resuscitation systems. 3,327,704, 6-27-67, Cl. 128—145.5.

Bartlett, Roscoe G., Jr. Mask-to-mask resuscitation systems. 3,352,304, 11-14-67, Cl. 128—145.8.

Bartlett, William F., to Stromberg-Carlson Corp. Queue store. 3,307,150, 2-28-67, Cl. 340—172.5.

Bartlett, William F., to Stromberg-Carlson Corp. Stored program boolean logic system incorporating omni-boolean function synthesizer. 3,349,379, 10-24-67, Cl. 340—172.5.

Bartlett, William F., and B. Brightman, to General Dynamics Corp. Parallel to serial character converter apparatus. 3,334,181, 8-1-67, Cl. 178—50.

Bartlett, William F., and B. Brightman, to General Dynamics Corp. Rapid access recording system. 3,334,338, 8-1-67, Cl. 340—174.1.

Bartlett, William H.: *See*—
Brynjolfsson, Wilfred, and Bartlett. 3,300,939.

Bartlett, William H., to Dur-O-Wal National, Inc. Masonry reinforcement. 3,348,354, 10-24-67, Cl. 52—693.

Bartley, Harold W., to Gregory Industries, Inc. End weldable stud. 3,336,712, 8-22-67, Cl. 52—378.

Bartley, Keith D., to Bell Telephone Laboratories, Inc. Illuminating sign. 3,319,060, 5-9-67, Cl. 240—73.

Bartley, Keith D., and R. E. Prescott, to Bell Telephone Laboratories, Inc. Telephone shelf unit. 3,300,917, 1-31-67, Cl. 52—36.

Bartley, Samuel C. Haircutting device. 3,358,367, 12-19-67, Cl. 30—30.

Bartley, William W., to The McKay Machine Co. Roll pass for tubing or the like. 3,348,403, 10-24-67, Cl. 72—237.

Bartlo, John S.: *See*—
Hull, Robert T., Schoppee, and Bartlo. 3,339,339.

Bartlo, John S., and R. H. Provost to Package Machinery Co. Heat sealing mechanism for wrapping machines. 3,353,332, 11-21-67, Cl. 53—379.

Barto, Ronald L., to General Electric Co. Production of nonsagging molybdenum sheet. 3,324,699, 6-13-67, Cl. 72—365.

Bartocha, Bodo K. W.: *See*—
Fetter, Neil R., and Bartocha. 3,316,067.
Fetter, Neil R., and Bartocha. 3,320,296.
Fetter, Neil R., and Bartocha. 3,321,503.
Fetter, Neil R., and Bartocha. 3,321,504.

Bartok, William: *See*—
Lyon, Richard K., and Bartok. 3,336,412.

Bartoletti, Louis F. Fishing rod guide. 3,354,574, 11-28-67, Cl. 43—24.

Bartolone, Steven P. License plate holder. 3,3,312,010, 4-4-67, Cl. 40—209.

Barton, Alfred O., W. D. Griffin, R. B. Lund, Z. Oser, and J. Vitrone, to Allied Chemical Corp. New trisphenols and epoxide resins prepared therefrom. 3,309,339, 3-14-67, Cl. 260—47.

Barton, Bernard C., W. Nudenberg, and E. A. Delaney, to Texas U.S. Chemical Co. Butadiene-isobutylene copolymers prepared by using catalyst composed of a grignard reagent and titanium tetrahalide. 3,357,960, 12-12-67, Cl. 260—85.3.

Barton, David W., and C. Haddad, to Ford Motor Co. Motion transfer device. 3,355,963, 12-5-67, Cl. 74—501.

Barton, Derek H. R., to Schering Corp. Photochemical process for rearranging organic hypohallte and nitrite compounds. 3,298,941, 1-17-67, Cl. 204—158.

Barton, Derek H. R., to Research Institute for Medicine and Chemistry, Inc. Process for the production of steroid bromohydrins or cyclic ethers derived therefrom. 3,354,150, 11-21-67, Cl. 260—239.55.

Barton, Derek H. R., B. A. Hems, T. Walker, A. C. Ritchie, R. F. K. Meredith, P. G. Holton, D. E. Clark, and G. B. Webb, to Glaxo Group Ltd. Benzoquinolizine and process for preparing same. 3,301,858, 1-31-67, Cl. 260—286.

Barton, Edward D., and F. T. Tucker, to General Motors Corp. Gas furnace ignition control system. 3,306,339, 2-28-67, Cl. 158—124.

Barton, Eugene E., Jr.: *See*—
Lotts, Adolphus L., and Barton. 3,324,540.

Barton, Frederick A., and C. E. Leuthauser, to Radio Corp. of America. Frequency multiplier. 3,337,791, 8-22-67, Cl. 321—69.

Barton, George C., and P. L. Stapleton, to United Shoe Machinery Corp. Backpart molding machines. 3,325,840, 6-20-67, Cl. 12—52.5.

Barton, Gerald L.: *See*—
Oxford, Edward F., and Barton. 3,308,895.

Barton Instrument Corp.: *See*—
Robinson, Myron L. 3,311,455.

Barton, James C., J. W. Carter, and W. E. Roberts, to Caterpillar Tractor Co. System for control of pitch and bounce in tractor-trailer combinations. 3,311,389, 3-28-67, Cl. 280—189.

Barton, James V., J. J. Borzelk, H. H. Gove, and R. E. Hoffman, to The Black Clawson Co. Extrusion die and feed apparatus. 3,314,109, 4-18-67, Cl. 18—14.

Barton, John M., and A. L. J. Raum, to The Distillers Co. Ltd. Trioxane polymerization process. 3,306,878, 2-28-67, Cl. 260—67.

Barton, John T., to Perkins Pipe Linings, Inc. Hose and cable coupling. 3,295,496, 1-3-67, Cl. 118—506.

Barton, John T., to Perkins Pipe Linings, Inc. Rate of flow indicator for mortar. 3,318,147, 5-9-67, Cl. 73—231.

Barton, Marcus P.: *See*—
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Bartoszewicz, Jerzy J., to Lever Bros. Co. N,N-disubstituted isopicramic acid salts for dyeing human hair. 3,344,031, 9-26-67, Cl. 167—88.

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Bassett, Arthur T., Jr., to General Motors Corp. Electrical surface heater with plural lamps. 3,355,574, 11–28–67, Cl. 219—464.

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Bastian, Bruce N., and G. N. Schrauzer, to Shell Oil Co. Bicycloheptadiene dimerization. 3,329,732, 7–4–67, Cl. 260—666.

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Batchelder, Charles F., and J. A. Rubico, to Batchelder-Rubico, Inc. Process for making shoe having cross-linked rand insole. 3,345,663, 10–10–67, Cl. 12—142.

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Batchelor, Clyde S., and W. R. Jensen, to Raybestos-Manhattan, Inc. Composite flame spraying wire. 3,332,752, 7–25–67, Cl. 29—191.6.

Batchelor, Clyde S., and W. R. Jensen, to Raybestos-Manhattan, Inc. Flame spraying. 3,332,753, 7–25–67, Cl. 29—191.6.

Batchelor, Clyde S., and W. R. Jensen, to Avco Corp. Flame spray metallizing. 3,342,626, 9–19–6, Cl.7 117—105.2.

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Bate, Geoffrey, D. E. Speliotis, and J. R. Morrison, to International Business Machines Corp. Magnetic coating. 3,342,633, 9–19–67, Cl. 117—217.

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Bately, Thomas E. Cut-off stop motion apparatus for spinning frame. 3,314,226, 4–18–67, Cl. 57—81.

Bateman, Jess R., and R. L. Carpenter. Meter switch and locking device. 3,334,276, 8–1–67, Cl. 317—108.

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Bates, Albert M., and J. J. Karew, to Burroughs Corp. Ringing trigger means for flip-flop. 3,309,529, 3–14–67, Cl. 307—88.5.

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Bathelt, Robert R., J. C. Francken, and C. J. W. Panis, to North American Philips Co. Inc. Color television tube with shadow mask provided with electron shielding plate coated with heat radiating material. 3,349,272, 10–24–67, Cl. 313—85.

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Knecht, John E. 3,297,318.
McCallum, John McK. 3,335,935.

Batlas, George X., and S. Baranski, to Griffith-Hope Co. Multiple paper roll dispenser. 3,329,366, 7–4–67, Cl. 242—55.53.

Batliner, Elmar: *See*—
Bartscher, Elwin, Batliner, and Oesterle. 3,338,496.

Batliner, Elmar, and M. Hartmann, to Hilti A.G. Stud driving tool with trigger sleeve. 3,325,074, 6–13–67, Cl. 227—8.

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Batorski, Edward J., and R. P. Hundt, to Textron, Inc. Hobbing machine. 3,331,283, 7–18–67, Cl. 90—4.

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Batres, Enrique: *See*—
Ringold, Howard J., Batres, Rosenkranz, Mancera, and Bowers. 3,322,796.

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Broman, Arthur, and Bats. 3,351,448.

Batsch, Norbert C., to Canadian General Electric Co. Ltd. Thermal fuse with capillary action. 3,354,282, 11–21–67, Cl. 200—142.

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Battaglia, Anthony. Dual purpose hair comb. 3,324,865, 6–13–67, Cl. 132—126.

Battaglia, Glenn J., and G. E. Lindin, to Polaroid Corp. Photomechanical apparatus. 3,318,220, 5–9–67, Cl. 95—75.

Battail, Gerard P. A., and P. C. Brossard. Low-level frequency modulated signal demodulator. 3,324,400, 6–6–67, Cl. 329—110.

Bateau, Dwight W., to United Research, Inc. Zero phase shift active element filter. 3,322,970, 5–30–67, Cl. 307—88.5.

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Battell, Leslie C., P. W. Senfleben, and W. W. Yarrison, to United Shoe Machinery Corp. Injection sole molding machines. 3,339,236, 9–5–67, Cl. 18—17.

Battelle Development Corp., The: *See*—
Adam, James W., Goobich, and Trainer. 3,307,861.
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Deutsch, Sid. 3,342,937.
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Battenfeld, Werner, and E. Langecker. Method of producing hollow bodies in a blowing process. 3,300,556, 1–24–67, Cl. 264—98.

Battenfeld, Werner, and W. Odendahl. Pressure reducing control valve. 3,331,590, 7–18–67, Cl. 261—50.

Battenfeld, Werner, and E. Langecker. Apparatus for the production of hollow bodies in a blowing process. 3,339,232, 9–5–67, Cl. 18—5.

Battersby, William R., to United Shoe Machinery Corp. Composite thermoplastic adhesives. 3,317,368, 5–2–67, Cl. 161—175.

Battersby, William R., to United Shoe Machinery Corp. Thermoplastic adhesive prepared from crystallizable polyesters resin and amorphous phenoxy resin. 3,329,740, 7–4–67, Cl. 260—860.

Battersby, William R., C. O. Karl, and J. S. Kelley, to United Shoe Machinery Corp. Methods of forming tubular bodies. 3,313,666, 4–11–67, Cl. 156—218.

Battersby, William R., C. O. Karl, and J. S. Kelley, to United Shoe Machinery Corp. Thermoplastic adhesives containing polyethylene, isobutylene rubber, tackifier resin and ethylenevinyl acetate copolymer. 3,318,977, 5–9–67, Cl. 260—889.

Battershell, Robert D., and H. Bluestone, to Diamond Alkali Co. Halogenated aromatic resticidal compositions for controlling fungi, bacteria and nematodes. 3,331,735, 7–18–67, Cl. 167—30.

Batti, Mario A., to Miles Laboratories, Inc. Process for producing citric acid. 3,335,067, 8–8–67, Cl. 195—36.

Batti, Mario A., to Miles Laboratories, Inc. Fermentation process for production of citric acid. 3,349,005, 10–24–67, Cl. 195—36.

Battin, John W., and D. B. Walker, Jr., to Motorola, Inc. Electronic circuit for selectivelly connecting a transmitter and a receiver to a single antenna. 3,327,215, 6–20–67, Cl. 325—23.

Battista, Joseph, to International Telephone and Telegraph Corp. Power supply heat sink. 3,305,704, 2–21–67, Cl. 317—100.

Battista, Orlando A., to FMC Corp. Method of forming finely-divided material from filament-forming synthetic linear polyamide. 3,299,011, 1–17–67, Cl. 260—78.

Battista, Orlando A., to FMC Corp. Stable amylose dispersions and method of preparing them. 3,351,489, 11–7–67, Cl. 127—32.

Battista, Orlando A., to FMC Corp. Shaped articles containing cellulose crystallite aggregates having an average level-off D. P. 3,357,845, 12–12–67, Cl. 106—193.

Battista, Orlando A., and E. G. Fleck, Jr., to FMC Corp., Method of protecting unstable materials. 3,297,806, 1–10–67, Cl. 264—129.

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Battles, James W., and D. E. Crane, to United States of America, Navy. Millimeter phase shifter and attenuator. 3,356,968, 12–5–67, Cl. 333—30.

Battline, Fred, to W. R. Grace & Co. Curable joint sealing compositions comprising halogenated butyl rubber phenol-aldehyde resin, and petroleum hydrocarbon resin. 3,320,333, 5–16–67, Cl. 260—846.

Batts, Carl T., to Barksdale Mfg. Corp. Solenoid-actuated valve. 3,324,889, 6–13–67, Cl. 137—625.69.

Batts, John H., to Thomas John Batts, Inc. Garment hanger construction. 3,306,506, 2–28–67, Cl. 223—88.

Battson, Donald F., to Radio Corp. of America. Electron multiplier dynode having an aperture of reduced secondary emission. 3,346,752, 10–10–67, Cl. 313—68.

Batur, Eugene H., to Future Products Tool Corp. Oil deficiency indicator. 3,300,769, 1–24–67, Cl. 340—270.

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Batzer, Hans: *See*—
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Batzer, Hans, E. Nikles, O. Ernst, and D. Porret, to Ciba Ltd. Epoxidized hydroaromatic acetals. 3,318,822, 5–9–67, Cl. 260—2.

Batzold, John S., to Esso Research and Engineering Co. Method of making a wetproofed electrode. 3,351,494, 11–7–67, Cl. 136—120.

Bau, Robert G. Cosmetic stick container. 3,348,670, 10–24–67, Cl. 206—56.

Ban, Robert G. Cosmetic storing and dispensing device. 3,358,-699, 12-19-67, Cl. 132—79.

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Van Schyndel, Andreas, and Schmidt. 3,300,938.

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Baubiys, Mikas, and E. Sigioch. Workpiece conveyor for machine tools and the like. 3,343,244, 9-26-67, Cl. 29—38.

Bauchard, Amable O. Attachment for ladders. 3,313,506, 4-11-67, Cl. 248—210.

Baude, John, to Allis-Chalmers Mfg. Co. Transistor reverse current protective circuit. 3,328,664, 6-27-67, Cl. 321—11.

Baude, John, to Allis-Chalmers Mfg. Co. Synchronous motor starting system. 3,337,785, 8-22-67, Cl. 318—175.

Baude, John, to Allis-Chalmers Mfg. Co. Voltage level sensing means for standby power supply systems. 3,344,282, 9-26-67, Cl. 307—66.

Baude, John, to Allis-Chalmers Mfg. Co. Means for providing a constant current source. 3,344,339, 9-26-67, Cl. 323—4.

Baude, John, to Allis-Chalmers Mfg. Co. Static relay control circuit. 3,346,797, 10-10-67, Cl. 320—1.

Baude, John, to Allis-Chalmers Mfg. Co. Transistorized multiplication circuit. 3,353,012, 11-14-67, Cl. 235—194.

Baude, John, to Allis-Chalmers Mfg. Co. Magnetic device for indicating the occurrence of an electrical signal. 3,353,171, 11-14-67 Cl. 340—253.

Bauder, Josef, W. Herrmann, and J. Swozil, to Siemens & Halske Aktiengesellschaft. Device for controlling a counter comprising matrix width and space line-wedge indicators in a key actuated composing perforator. 3,297,-245, 1-10-67, Cl. 234—5.

Bauder, Max A. L., to Ford Motor Co. Transmission with clutch having dual pressure engaging chambers. 3,307,430, 3-7-67, Cl. 74—763.

Baudin, Jacques M. Method for temporarily protecting sensitive surfaces by direct-contact film-forming coatings. 3,317,441, 5-2-67, Cl. 260—5.

Baudry, Jean, to Institut Francais du Petrole des Carburants & Lubrifiants. Device for admitting two different fluids into a combustion chamber. 3,331,361, 7-18-67, Cl. 123—127.

Bauer, Albert W., and F. B. Hill, Jr., to E. I. du Pont de Nemours and Co. Non flammable carbon disulfide fumigant composition. 3,298,907, 1-17-67, Cl. 167—23.

Bauer, Albert W., and P. A. Sanders, to E. I. du Pont de Nemours and Co. Emulsions containing trichlorotrifluoroethane for the cleaning of apparatus. 3,336,232, 8-15-67, Cl. 252—153.

Bauer, Alfred F., to National Lead Co. Die casting apparatus with wedge locking blocks and rectangular guide members. 3,324,936, 6-13-67, Cl. 164—314.

Bauer, Alfred F., to National Lead Co. Method of making a die cast cylinder for internal combustion engines. 3,359,615, 12-26-67, Cl. 29—156.4.

Bauer, Andrew R., to Arthur D. Little, Inc. Vibratory tool. 3,347,321, 10-17-67, Cl. 173—118.

Bauer, Arnold, to Patent-Treuhand-Gesellschaft fur elektrische. Scandium halide discharge lamp. 3,351,798, 11-7-67, Cl. 313—225.

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Cantrell, Ronald S. 3,358,833.
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Bauer, Carl, and C. Otzen, to Agfa Aktiengesellschaft. Variable focal length objective having eight axially spaced lenses. 3,348,898, 10-24-67, Cl. 350—184.

Bauer Charles A., to Sargent & Co. Pick-resistant lock and key therefor. 3,303,677, 2-14-67, Cl. 70—358.

Bauer, Donald J., and K. E. Lindstrom, to United States of America, Interior. Selective extraction and separation of lanthanides with a quaternary ammonium compound. 3,323,-857, 6-6-67, Cl. 23—23.

Bauer, Donald R., to Kaiser Gypsum Co., Inc. Fire-resistant building board and process. 3,300,372, 1-24-67, Cl. 162—145.

Bauer, Edgar, to Deere & Co. Crop gathering and chopping machine. 3,315,450, 4-25-67, Cl. 56—24.

Bauer, Edward W.: *See*—
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Bauer, Edwin F., Jr., and K. O. Rieder, to Union Carbide Corp. Process for the production of low silicon, medium-to-low carbon ferromanganese. 3,347,664, 10-17-67, Cl. 75—135.

Bauer, Ernst: *See*—
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Bauer, Eugen, G.m.b.H.: *See*—
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Bauer, Eugene C., Jr. Tractor rail shoe. 3,336,088, 8-15-67, Cl. 305—54.

Bauer, Felix, and R. Foltier. Universal vegetal grinder and harvester. 3,338,037, 8-29-67, Cl. 56—24.

Bauer, Franz, to Hubert L. Kainer. Electromagnetically operated switches having improved contact actuating means. 3,319,199, 5-9-67, Cl. 335—128.

Bauer, Fritz: *See*—
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Schorr, Manfred, Fussganger, Nesemann, and Bauer. 3,322,768.

Bauer, Fritz E., to Compton & Knowles Corp. Closed heat treating chamber having a seal roll oscillating mechanism. 3,306,594, 2-28-67, Cl. 263—3.

Bauer, Hans R.: *See*—
Maya, Walter, and Bauer. 3,354,646.

Bauer, Helmut, to Maschinenfabrik Burckhardt A.G. Arrangements including coaxial suction and delivery valves. 3,309,013, 3-14-67, Cl. 230—231.

Bauer, Helmut, to Maschinenfabrik Burckhardt A.G. Compressors or pumps with hydraulic transmission. 3,314,366, 4-18-67 Cl. 103—44.

Bauer, Helmut, to Maschinenfabrik Burckhardt AG. Single acting twin cylinder pump or compressor. 3,331,329, 7-18-67, Cl. 103—49.

Bauer, Helmut, to Maschinenfabrik Burckhardt AG. Pistons for very high pressure operation in pumps or compressors. 3,353,456 11-21-67, Cl. 92—258.

Bauer, Helmut, A. Leitgeb, and A. Strebel, to Maschinenfabrik Burckhardt A.G. Coaxial suction and delivery valve arrangement for high pressure compressors and pumps. 3,309,014, 3-14-67, Cl. 230—231.

Bauer, Howard G., to The Wurlitzer Co. Bimetallic contact element for electronic musical instrument. 3,330,916, 7-11-67, Cl. 200—5.

Bauer, Hugo. Fastener cartridge and assembly. 3,353,736, 11-21-67, Cl. 227—107.

Bauer, Johann, and A. Zenz, to J. Bauer, and B. Reisgies. Process for improving foamed polyurethane plastics by treatment with an alkali solution of a water free allphatic monohydric alcohol. 3,322,701, 5-30-67, Cl. 260—2.5.

Bauer, Klaus: *See*—
Van Winsen, Friedrich H., and Bauer. 3,300,232.

Bauer, Konrad E., to Hupp Corp. Gas-fired infrared burners and heaters. 3,330,267, 7-11-67, Cl. 126—92.

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Bock, Willy, Bauer, and Deutscher. 3,339,222.

Bauer, Kurt, to Ciba Corp. Flowable starches. 3,313,640, 4-11-67, Cl. 106—210.

Bauer, La Verne N., to Rohm & Haas Co. Phosphorous-containing graft copolymers as dispersants in lubricating and fuel compositions. 3,342,734, 9-19-67, Cl. 252—16.6.

Bauer, La Verne N., and G. L. Willette, to Rohm & Haas Co. Oil-soluble polymers and compositions containing them. 3,337,458, 8-22-67, Cl. 252—48.6.

Bauer, Ludwig, to International Standard Electric Corp. Pushbutton cover ring. 3,350,516, 10-31-67, Cl. 179—179.

Bauer, Magda: *See*—
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Bauer, Matthias: *See*—
Jansen, Hermann, Walther, Bauer, and Johns. 3,330,334.

Bauer, Norman C., to Allen Products Corp. License plate frame. 3,314,181, 4-18-67, Cl. 40—209.

Bauer, Peter, to Sperry Rand Corp. Fluid data comparator. 3,299,255, 1-17-67, Cl. 235—61.7.

Bauer, Peter, to Sperry Rand Corp. Fluid pulse attenuator. 3,319,659, 5-16-67, Cl. 138—41.

Bauer, Peter, to Bowles Engineering Corp. Pressure band detector. 3,340,885, 9-12-67, Cl. 137—81.5.

Bauer, Peter, and J. P. Morton, to Bowles Engineering Corp. Timing mechanisms. 3,318,523, 5-9-67, Cl. 235—201.

Bauer, Peter, J. R. Colston, and E. U. Sowers, III; said Bauer and said Sowers assors. to Sperry Rand Corp. and said Colston assor. to Bowles Engineering Corp. Presettable decoder. 3,339,569, 9-5-67, Cl. 137—81.5.

Bauer, Richard J., and G. L. Gass, to General Motors Corp. Vacuum modulator. 3,302,534, 2-7-67, Cl. 92—36.

Bauer, Richard M., to Stackpole Carbon Co. Carbon pile resistor. 3,302,154, 1-31-67, Cl. 338—114.

Bauer, Richard M., to American Can Co. Method for forming a non wicking carton. 3,328,189, 6-27-67, Cl. 117—4.

Bauer, Robert D., J. L. Ledbetter, and G. R. Hettick, to Phillips Petroleum Co. Employing overhead as reboil heat with flow control. 3,324,010, 6-6-67, Cl. 203—1.

Bauer, Robert H.: *See*—
Burnes, Samuel P., and Bauer. 3,348502.

Bauer, Robert R., B. Krivec, and T. J. Stencel, to Rex Chainbelt Inc. Weighing mechanism for conveyor. 3,324,960, 6-13-67, Cl. 177—16.

Bauer, Ronald S.: *See*—
Youngman, Edward A., Bauer, Holler, and Lunk. 3,336,-273.
Youngman, Edward A., Bauer, Holler, and Lunk. 3,336,-274.
Youngman, Edward A., Bauer, and Lunk. 3,336,272.

Bauer, Roy C., to Canada Skate Mfg. Co. Ltd. Safety guard for skates. 3,322,437, 5-30-67, Cl. 280—11.17.

Bauer, Victor J.: *See*
Toens, Edward C., and Bauer. 3,341,413.

Bauer, Victor J., and H. P. Dalalian, to American Cyanamid Co. Mono- and di-substituted ureas. 3,332,975, 7-25-67, Cl. 260—453.

Bauer, Walter: *See*—
Piloty, Robert, Pabst, Thiele, and Bauer. 3,316,538.

Bauer, Walter, deceased, by M. Bauer, G. Degenkolb, and B. Bauer, legal heirs, to International Standard Electric Corp. Method of performing on-the-fly searches for information stored on tape storages or the like. 3,307,153, 2-28-67, Cl. 340—172.5.

Bauer, Werner R., to Robertshaw Controls Co. Actuating construction. 3,304,384, 2-14-67, Cl. 200—83.

Bauer, Werner R., to Robertshaw Controls Co. Pressure responsive resetting controller. 3,315,053, 4-18-67, Cl. 200—83.

Bauer, Werner R., to Robertshaw Controls Co. Hermetically-sealed switch and protective mounting means therefor. 3,317,697, 5-2-67, Cl. 200—168.

Bauer, Werner R., to Robertshaw Controls Co. Switch with transverse sheet metal snap action members. 3,354,274, 11-21-67 Cl. 200—67.

Bauer, William A., to Anaconda American Brass Co. Reinforced flexible corrugated metal hose assembly. 3,318,337, 5-9-67, Cl. 138—136.

Bauer, William V., to The Lummus Co. Distillation of a solute-solvent mixture in successively reduced pressure stages while in direct contact and concurrent flow with a heat transfer medium. 3,298,932, 1-17-67, Cl. 203—11.

Bauernschub, John P., Jr., to United States of America, National Aeronautics and Space Administration. Folding boom assembly. 3,295,699, 1-3-67, Cl. 214—1.

Bauernschub, John P., Jr., to United States of America, National Aeronautics and Space Administration. Non-magnetic, explosive actuated indexing device. 3,331,255, 7-18-67, Cl. 74—126.

Banes, Dietrich, to Guild Arts & Crafts, Inc. Belt buckle. 3,357,067, 12-12-67, Cl. 24—176.

Bauger, Louis J., B. P. E. Gambet, A. J. B. LaCroix, and P. J. V. Negre, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Burner devices and combustion chambers therefor. 3,295,318, 1-3-67, Cl. 60—39.72.

Baugh, Robert A., to Pittsburgh Plate Glass Co. Thermosetting compositions of alkylated acrylamide-formaldehyde interpolymers and a preformed polyester containing unreacted 1,2-epoxy groups. 3,315,011, 4-18-67, Cl. 260—834.

Baugh, William T., Jr. Golf ball storage device and retriever. 3,316,008, 4-25-67, Cl. 294—19.

Baughan, Drury H., to Reynolds Metals Co. Dish-like container and blanks therefor. 3,327,921, 6-27-67, Cl. 229—31.

Baughan, Drury H., to Reynolds Metals Co. Reclosable container and blanks therefor. 3,327,923, 6-27-67, Cl. 229—51.

Baughman, Frederick P., and B. F. Douglas, to Taylor Corp. Molding composition for making thermal barriers and method of making same. 3,314,915, 4-18-67, Cl. 260—38.

Baughman, George W., to Westinghouse Air Brake Co. Railway signaling systems. 3,309,516, 3-14-67, Cl. 246—34.

Baughman, George W., to Westinghouse Air Brake Co. Train speed control system. 3,355,584, 11-28-67, Cl. 246—187.

Baughman, Howard B., and K. B. Keeling, Sr., to General Electric Co. Windowed oven door. 3,311,106, 3-28-67, Cl. 126—290.

Baughman, Richard A. Protective device. 3,309,109, 3-14-67, Cl. 280—150.

Baukney, Lucille F. Cover and press for tennis rackets. 3,343,-838, 9-26-67, Cl. 273—74.

Baum, Arthur A., and R. L. Dickenson, to E. I. du Pont de Nemours and Co. Stabilization of chloro substituted aromatic amines during thermals stress. 3,324,011, 6-6-67, Cl. 203—6.

Baum, Bernard O., G. M. Bryant, and N. L. Zutty, to Union Carbide Corp. Polyolefins containing copolymers of ethylene and N-vinyl-N-hydrocarbyl acetamides. 3,300,548, 1-24-67, Cl. 260—897.

Baum, Gerald A., and W. J. Considine, to M & T Chemicals Inc. Composition and method for controlling bacteria with organotin compounds. 3,328,239, 6-27-67, Cl. 167—22.

Baum, Harold D. Coin controlled vending machine. 3,360,091, 12-26-67, Cl. 194—2.

Baum, Harold M.: *See*—
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Baum, Herman. Spark plug having concentric radially spaced electrodes. 3,312,848, 4-4-67, Cl. 313—11.5.

Baum, Leo, and D. W. Watkins, to Esco Corp. Tobacco smoke filter. 3,351,072, 11-7-67, Cl. 131—266.

Baum, Lester A. H.: *See*—
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Baum, Lester A. H., P. F. Brulns, and F. W. Littler, to Mobil Oil Corp. Thermoplastic resins. 3,313,751, 4-11-67, Cl. 260—17.4.

Baum, Melvin E.: *See*—
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Baum, Wesley L.: *See*—
Gelzheiser, Francis L., and Baum. 3,319,034.

Baum, William H., and R. J. Mosetich, to Fastener Corp. Apparatus for and method of making strips of nails. 3,315,-436, 4-25-67, Cl. 53—35.

Baum, William H., and J. Mosetich, to Fastener Corp. Method of making assembled fastener strips. 3,342,659, 9-19-67, Cl. 156—296.

Bauman, Albert J.: *See*—
Webb, James E. 3,357,093.

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Netz, Norman, Bauman, Baranowski, and Freedman. 3,343,309.
Netz, Norman, Bauman, Baranowski, and Freedman. 3,343,310.

Bauman, Francis E., and H. J. Costill, to Owens-Illinois, Inc. Glass tube gauging and cutting apparatus. 3,318,180, 5-9-67, Cl. 83—287.

Bauman, Hans, W. Federkiel, and P. Richter, to Badische Anilin & Soda Fabrik Aktiengesellschaft. Dyeing textile materials of synthetic linear polyesters. 3,311,443, 3-28-67, Cl. 8—49.

Bauman, Harry D., to P. H. Glatfelter Co. White pigment. 3,337,359, 8-22-67, Cl. 106—293.

Bauman, Jack L., and G. R. O'Neil, to International Harvester Co. Planter. 3,335,680, 8-15-67, Cl. 111—51.

Bauman, Robert H., to General Motors Corp. Brake shoe centering mechanism. 3,295,638, 1-3-67, Cl. 188—79.5.

Bauman, Robert H., to General Motors Corp. Master cylinder. 3,310,944, 3-28-67, Cl. 60—54.6.

Bauman, Robert H., to General Motors Corp. Brake shoe centering device. 3,322,238, 5-30-67, Cl. 188—79.5

Bauman, Robert H., T. A. Bratten, and R. D. Meixell, to General Motors Corp. Automatic brake drum and lining clearance adjuster. 3,357,527, 12-12-67, Cl. 188—79.5.

Bauman, Robert R. Window mounted air conditioning unit. 3,296,820, 1-10-67, Cl. 62—262.

Bauman, William C.: *See*—
Querio, Charles W., Hultin, Bauman, and Teal. 3,335,798.

Bauman, William C., to The Dow Chemical Co. Foam plastic filler method. 3,307,318, 3-7-67, Cl. 52—743.

Baumann, Erwin A., Jr. Holder for fishing rod handle. 3,360,224, 12-26-67. Cl. 248—44.

Baumann, Frederick W., to General Electric Co. Ventilation for totally enclosed dynamoelectric machine. 3,353,042, 11-14-67, Cl. 310—57.

Baumann, Fritz: *See*—
Bien, Hans-Samuel, Wunderlich, and Baumann. 3,344,132.
Vollmann, Heinrich, Hohmann, and Baumann. 3,316,280.

Baumann, George P., and F. J. Ponzek, to Esso Research and Engineering Co. Apparatus for conversion of hydrocarbons. 3,353,925, 11-21-67, Cl. 23—288.

Baumann, Gert F.: *See*—
Steingiser, Samuel, Baumann, and Gable. 3,310,604.

Baumann, Gert F., to Mobay Chemical Co. Method of improving the processability of polyurethane polymers. 3,321,-433, 5-23-67, Cl. 260—30.2.

Baumann, Gotthold P., and G. E. J. Thomas. Method for dewatering sludges. 3,342,731, 9-19-67, Cl. 210—45.

Baumann, Hans, and P. Schmidt-Theuner, to Brown, Boveri & Cie, Aktiengesellschaft. Apparatus for regulating a turbocompressor. 3,327,933, 6-27-67 Cl. 230—114.

Baumann, Hans, and P. Schmidt-Theuner, to Brown, Boveri & Cie, Aktiengesellschaft. Method for preventing damage by corrosion of the adjustable mechanism of guide blading of turbomachines and turbomachine with corrosion prevention device. 3,342,406, 9-19-67, Cl. 230—114.

Baumann, Hans D., to Riley Stoker Corp. Valve. 3,304,949. 2-21-67, Cl. 137—270.

Baumann, Hans D. Differential pressure transmitter. 3,319,-468, 5-16-67, Cl. 73—407.

Baumann, Hans D., to A. W. Cash Co. Value for low temperature service. 3,322,142, 5-30-67, Cl. 137—334.

Baumann, John A.: *See*—
Quarles, Richard W., and Baumann. 3,298,973.

Baumann, Ludwig, and B. Schutze, to Heddernheimer Metallwarenfabrik Ludwig Baumann KG. Ventilating device. 3,331,302, 7-18-67, Cl. 98—33.

Baumann, Peter, and M. Zimmerman, to Geigy Chemical Corp. 6-amino-penicillanic acid derivatives. 3,354,145, 11-21-67, Cl. 260—239.1.

Baumann, Philip C., to Radio Corp. of America. Semiconductor device assemblage having two convex tabs. 3,355,635, 11-28-67, Cl. 317—234.

Baumann, Robert J. Remote control means for internal combustion engines. 3,357,417, 12-12-67, Cl. 123—179.

Baumbach, Darrel W. Tamper-proof container cover. 3,329,-293, 7-4-67, Cl. 215—9.

Baumber, Michael W., to Bakelite Xylonite Ltd. Polymerization of trioxane. 3,357,953, 12-12-67, Cl. 260—67.

Baumeister, Heard K., A. W. Orlando, and W. B. Phillips, to International Business Machines Corp. Pneumatic belt device utilizing back-pulsing or forward-pulsing. 3,314,729, 4-18-67, Cl. 302—2.

Baumel, Anton, to Bohler, Gebr. & Co. Aktiengesellschaft. Corrosion - resisting cobalt - chromium - tungsten alloys. 3,307,939, 3-7-67, Cl. 75—134.

Baumer, Nelson G.: *See*—
Malm, Carl J., Rowley, and Baumer. 3,342,728.

Baumfalk, John, T. P. McGuinness, and R. C. Nance, to Bell Telephone Laboratories, Inc. Operator position control equipment for serving calls on an overlap basis. 3,297,828, 1-10-67, Cl. 179—27.

Baumgartner, August and W. Gegenschatz, to Zellweger, Ltd. Device for drawing warp threads into reeds. 3,348,282, 10-24-67, Cl. 28—44.

Baumgartner, Cecil A. Electrostatic method for treating metals. 3,341,371, 9-12-67, Cl. 148—20.3.

Baumgartner, Donald W. Method of making two-piece paper cups. 3,342,113, 9-19-67, Cl. 93—39.1.

Baumgartner, Ernst, to Maschinenfabrik Reinhausen Gebruder Schenbeck K.G. Transfer switch for tap changing regulating transformers including a contact support for the fixed contacts having no creepage path. 3,315,043, 4–18–67, Cl. 200—11.

Baumgartner, Franz, Fabrik Elektrischer Apparate: *See*— Klein, Johann. 3,355,601.

Baumgartner, George L., Jr. Curl-resistant vinyl cork tile. 3,308,009, 3–7–67, Cl. 161—211.

Baumgartner, Herman J., G. C. Hood, and D. D. Weaver, to Shell Oil Co. Hydrogen peroxide decomposition. 3,333,419, 8–1–67, Cl. 60—218.

Baumgartner, Herman J., G. C. Hood, and D. D. Weaver, to Shell Oil Co. Hydrogen peroxide decomposition. 3,347,630, 10–17–67, Cl. 23—204.

Baumgartner, John G. Surgeon's fingernail and hand cleaning brush. 3,354,492, 11–28–67, Cl. 15—167.

Baumgartner, Paul, to H. and F. W. Deckel. Handwheel for machine tools and the like. 3,315,540, 4–25–67, Cl. 74—548.

Baumgartner, Pierre, and C. Roux-Guerraz, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for nitrosation of hydrocarbons. 3,320,143, 5–16–67, Cl. 204—162.

Baumler, Hermann, to Goetzewerke Friedrich Goetze Aktiengesellschaft. Method of making an annular spring. 3,359,617, 12–26–67, Cl. 29—173.

Baur, Carl, and F. Arlet, to Agfa Gevaest A.G. Film cartridge. 3,333,785, 8–1–67, Cl. 242—71.1.

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Baur, Fritz. Compensated electromagnetic balance. 3,322,222, 5–30–67, Cl. 177—210.

Baur, Gerd R.: *See*— Henderson, William B., and Baur. 3,354,111.

Baur, Gerd R., W. B. Henderson, and J. R. Misenheimer, to Monsanto Co. Acrylonitrile polymers modified with high molecular weight N,N-dimethylamides. 3,329,644, 7–4–67, Cl. 260—32.6.

Baur, Hans, and P. Reinhardt, to Cable Covers Ltd. Looped wire, rope or cable. 3,338,046, 8–29–67, Cl. 57—145.

Baur, Karl. Vehicle sliding roof closure. 3,329,462, 7–4–67, Cl. 296—137.

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Bautista, Dionisio O. Blood drawing device. 3,304,934, 2–21–67, Cl. 128—2.

Bavisotto, Vincent S., to Chas. Pfizer & Co., Inc. Process for producing brewer's wort with enzymes. 3,353,960, 11–21–67, Cl. 99—52.

Bavley, Abraham, and J. D. Grossman, to Philip Morris Inc. Tobacco product. 3,306,303, 2–28–67, Cl. 131—17.

Bavley, Abraham, and W. C. Bailey, Jr., to Philip Morris Inc. Smoking tobacco composition. 3,312,226, 4–4–67, Cl. 131—17.

Bawn, Carl V., to United States Rubber Co. ABS polymers stabilized with a metal sulfide and one or more phenolic amine or phosphite antioxidants. 3,352,820, 11–14–67, Cl. 260—45.75.

Bax, Arthur. Resiliently mounting for artificial teeth. 3,328,879, 7–4–67, Cl. 32—12.

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Baxendale, Norman G., to Dunlop Rubber Co., Ltd. Method of joining together the ends of a reinforced belt to form an endless belt. 3,351,508, 11–7–67, Cl. 156—159.

Baxendale, Ralph W., G. W. Luckey, and H. C. Yutzy, to Eastman Kodak Co. Image reproduction processes utilizing photopolymerization of vinyl monomer compositions comprising a metallic sulfide compound. 3,346,383, 10–10–67, Cl. 96—35.1.

Baxley, Conwell B., to Lockheed Aircraft Corp. Tool for removing and replacing component structures of aircraft. 3,318,466, 5–9–67, Cl. 214—1.

Baxmann, Fritz: *See*— Kopetz, Kurt, and Baxmann. 3,331,797.

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Baxter, Joseph, Jr., to The Black Clawson Co. Centrifugal cleaner for paper making stock and the like. 3,335,860, 8–15–67, Cl. 209—211.

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Baxter, Thomas R. Foot covering. 3,324,580, 6–13–67, Cl. 36—8.1.

Bay, Gerald B., and L. T. Fine, to Avco Corp. Multistage transistor amplifier in which the impedances of the various stages are successively varied to control gain. 3,331,028, 7–11–67, Cl. 330—24.

Bay, Otto. Chucks. 3,353,834, 11–21–67, Cl. 279—82.

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Bayer, Eric W., and W. Muller, to Allied Control Co., Inc. Electromagnetic rotary armature relay. 3,336,550, 8–15–67, Cl. 335—272.

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Bayer, Gerhard, to Owens-Illinois, Inc. Perovskites. 3,309,169, 3–14–67, Cl. 23—50.

Bayer, John W., and E. Santiago, to Owens-Illinois Glass Co. Polymerization catalyst containing an organosilazane. 3,300,465, 1–24–67, Cl. 260—93.7.

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Bayer, Otto, R. Schroter, W. Siefken, and K. Wagner, to Farbenfabriken Bayer Aktiengesellschaft. 1,2-bis-aminomethyl-cyclobutane. 3,309,405, 3–14–67, Cl. 260—563.

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Bayes, Ronald C., and D. H. Sands, to The Rubberoid Co. Ltd., and Chemidus Plastics Ltd. Snap fitted plastic guttering joint. 3,357,143, 12–12–67, Cl. 52—11.

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Baylor, Paul C.: *See*— Voorhees, John A., and Baylor. 3,306,297.

Bayluk, John. Stacking frames for pallets. 3,313,248, 4–11–67, Cl. 108—53.

Bayly, John G., and E. H. de Grey, to Atomic Energy of Canada, Ltd. Method and apparatus for transmitting signal information from an enclosed region to an exterior region without direct electrical connection between the regions. 3,310,736, 3–21–67, Cl. 324—62.

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Bazin, Lucas J., R. A. Dischert, and D. M. Taylor, to Radio Corp. of America. Color television phase test apparatus. 3,310,625, 3–21–67, Cl. 178—5.4.

Beaber, Wallace E. Fuel injection systems. 3,311,099, 3–28–67, Cl. 123—139.

Beach, Allan D., to United Kingdom Atomic Energy Authority. Horizontal seismometer. 3,297,982, 1–10–67, Cl. 340—17.

Beach, David E., to Eastman Kodak Co. Photographic still cameras with built-in flash. 3,353,468, 11–21–67, Cl. 95—11.5.

Beach, Frank J.: *See*— Koster, Robert A., Beach, and Bryan. 3,346,853.

Beach, Herbert S., and J. R. Fulmer, to Geo. D. Roper Corp. Outside pilot arrangement. 3,312,271, 4–4–67, Cl. 158—127.

Beach, Howard W., Jr. Electrostatic paint spray gun. 3,339,841, 9–5–67, Cl. 239—15.

Beach, Janet L. Thermometer set. 3,321,068, 5–23–67, Cl. 206—16.6.

Beach, John G.: *See*— Faust, Charles L., Schaer, and Beach. 3,318,786.

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Beach, John R., to Signode Corp. Sealless strap connection. 3,303,541, 2–14–67, Cl. 24—20.

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Passannanta, Anthony J., Rhodes, and Beach. 3,347,924.
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Beach, Leland K., H. R. Ertelt, D. A. Guthrie, and R. P. Rhodes, to Esso Research and Engineering Co. Cyclohexane, -ene, -diene-NF_2 reaction products. 3,354,210, 11–21–67, Cl. 260—563.

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Beach, Stephen A. Air valve apparatus. 3,305,212, 2–21–67, Cl. 251—320.

Beach, Theodore L., Jr. Mounting bracket for mirror. 3,306,565, 2–28–67, Cl. 248—282.

Beach, Theodore L., Jr. Rear view mirror. 3,343,779, 9–26–67, Cl. 248—488.

Beach, Willard C. Bit for harness bridle. 3,300,948, 1–31–67, Cl. 54—8.

Beach, Willard C. Crupper for harness. 3,302,371, 2–7–67, Cl. 54—22.

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Beadle, Chasse, to G. V. Forrest. Packaging container. 3,322,320, 5–30–67, Cl. 229—14.

Beadle, Robert G., D. A. Lehr, and H. S. Maxwell, to General Electric Co. Computer control system for metals rolling mill. 3,332,263, 7–25–67, Cl. 72—7.

Beadley, Noel F., to Bennett Respiration Products, Inc. Flow-responsive valve for supplying pressure signal. 3,311,125, 3–28–67, Cl. 137—117.

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Beaird, Francis M., Jr., and P. Kobetz, to Ethyl Corp. Chemical process. 3,355,262, 11–28–67, Cl. 23—365.

Beakbane, Alfred B., to Surf Disk, Inc. Water sport device. 3,335,440, 8–15–67, Cl. 9—310.

Beal, David H., to Donald Ropes & Wire Cloth Ltd. Clevis. 3,319,990, 5–16–67, Cl. 294—74.

Beal, Philip F., III, G. S. Fonken, and J. E. Pike, to The Upjohn Co. Microbiological conversion of unsaturated fatty acids. 3,296,091, 1–3–67, Cl. 195—30.

Beal, William E.: *See*— Payne, John W., Weber, and Beal. 3,318,136.

Beale, Evelyn S. L., to Alan Muntz & Co., Ltd. Devices responsive to fluid flow. 3,320,382, 5–16–67, Cl. 200—81.9.

Beale, James, to Foseco International Ltd. Mold composition for foundry use. 3,305,370, 2–21–67, Cl. 106—38.5.

Beale, Julian R. A., to North American Philips Co. Inc. Unipolar transistor with narrow channel between source and drain. 3,344,324, 9–26–67, Cl. 317—235.

Beale, Julian R. A., and A. F. Beer (by North American Philips Co., Inc., assignee). Method of making semiconductor device. Re. 26,282, 10–17–67, Cl. 29—583.

Beale, Julian R. A., A. F. Beer, and P. C. Newman, to North American Philips Co., Inc. Opto-electronic semiconductor junction device. 3,319,068, 5–9–67, Cl. 250—217.

Beale, Julian R. A., A. F. Beer, and P. C. Newman, to North American Philips Co. Inc. Opto-electronic semiconductor device. 3,351,828, 11–7–67, Cl. 317—235.

Beale, Richard D., to Rolls-Royce Ltd. Sealing device. 3,314,651, 4–18–67, Cl. 253—77.

Beale, Stanley E., to Security First National Bank. Printed circuit board hardware. 3,311,863, 3–28–67, Cl. 339—45.

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Beall, Horace A., Jr., and C. A. Cail, to North American Aviation, Inc. Angle transducer employing polarized light. 3,306,159, 2–28–67, Cl. 88—14.

Beall, Richard W., Jr. Storage battery filling device. 3,318,345, 5–9–67, Cl. 141—59.

Bealle, Morris A. Portable water purifier. 3,339,743, 9–5–67, Cl. 210—256.

Bealle, Morris A. Football place-kicking shoe. 3,350,796, 11–7–67, Cl. 36—2.5.

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Beam, Paul E., Jr., to General Motors Corp. Closed loop heat exchanger for a gas turbine engine. 3,355,883, 12–5–67, Cl. 60—39.51.

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Bean, Claude T., Jr., and D. H. Thorpe, to Hooker Chemical Corp. Polymerizate of phenolic resins esterified with unsaturated monocarboxylic acids and laminates therefrom. 3,331,730, 7–18–67, Cl. 161—192.

Bean, George G. Fingerprint kit. 3,318,282, 5–9–67, Cl. 118—9.

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Bean, Lloyd F., to Xerox Corp. Facsimile recorder using thermoplastic record with photoconductive layer. 3,308,234, 3–7–67, Cl. 178—6.6.

Bean, Lloyd F., to Xerox Corp. Electroviscously controlled recorder. 3,308,475, 3–7–67, Cl. 346—140.

Bean, Lloyd F., and R. W. Gundlach, to Xerox Corp. Internal frost recording. 3,317,316, 5–2–67, Cl. 96—1.1.

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Bearden, Roby, Jr., to Esso Research and Engineering Co. Synthesis of vinyl esters by ester interchange with a molar excess of the carboxylic acid. 3,337,611, 8–22–67, Cl. 260—491.

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Beatty, John W., and R. H. Miller, to General Electric Co. Means for controlling the blast valve of a gas blast circuit breaker. 3,336,454, 8–15–67, Cl. 200—148.

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Bejach, Benton, to Minnesota Mining and Mfg. Co. Tape transport system. 3,318,547, 5–9–67, Cl. 242—55.12.

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Bensemann, Edward H. T. Sizing machine. 3,353,670, 11-21-67, Cl. 209—84.

Bensimon, Jacques, to CSF-Compagnie Generale de Telegraphie Sans Fil. Thermionic energy converter with photon ionization. 3,300,660, 1-24-67, Cl. 310—4.

Bensimon, Jacques, and P. Laures, to CSF-Compagnie Generale de Telegraphie Sans Fil. Thermionic energy converter employing multiple reflection ionization. 3,313,961, 4-11-67, Cl. 310—4.

Bensing, Gerald K., to Honeywell Inc. Biasing control using saturable magnetic cores. 3,303,334, 2-7-67, Cl. 235—156.

Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Rotary piston engine. 3,344,778, 10-3-67, Cl. 123—8.

Bensler, Richard A., Sr., and R. W. Mitchell, to International Business Machines Corp. Cut card continuous forms. 3,304,103, 2-14-67, Cl. 282—11.5.

Bensler, Richard A., Sr., and R. W. Mitchell, to International Business Machines Corp. Card documents. 3,343,851, 9-26-67, Cl. 281—5.

Benson, Anthony J., to Drayton Control Engineering Ltd. Over-centre snap acting temperature responsive switch. 3,327,946, 6-27-67, Cl. 236—48.

Benson, Bernard S.: *See*—
Brown, David A., and Benson. 3,307,397.

Benson, Bernard S. Pencil or pen with a moving point. 3,297,003, 1-10-67, Cl. 120—45.6.

Benson, Carl A., and A. L. Hart, to American Can Co. Method of and apparatus for classifying glass bottles. 3,301,396, 1-31-67, Cl. 209—72.

Benson, Carl F., to The Torrington Co. Full complement roller radial thrust bearing. 3,300,261, 1-24-67, Cl. 308—212.

Benson, Carl F., to The Torrington Co. Method of preloading a universal joint. 3,302,267, 2-7-67, Cl. 29—148.4.

Benson, Carl F., to The Torrington Co. Energy converter. 3,312,200, 4-4-67, Cl. 123—11.

Benson, Clark K., and A. A. Caridis, to Heat and Control Inc. Food cooker. 3,309,981, 3-21-67, Cl. 99—405.

Benson, Clyde A.: *See*—
Illingworth, Robert H., and Benson. 3,354,028.

Benson, Donald H.: *See*—
Mitchell, William A. 3,344,819.

Benson, Ernest J.: *See*—
Webster, Robert C., and Benson. 3,297,454.

Benson-France: *See*—
Mourier, Jean. 3,305,873.

Benson, George C., and J. E. Allen, to United States of America, Atomic Energy Commission. Manometer. 3,326,048, 6-20-67, Cl. 73—401.

Benson, Glendon M., to Physics International Co. Breeder nuclear reactor. 3,322,636, 5-30-67, Cl. 176—18.

Benson, Glendon M., to Physics International Co. Core element for a breeder nuclear reactor. 3,322,644, 5-30-67, Cl. 176—69.

Benson, Glendon M., to Physics International Co. Fluid pressure actuated piezoelectric generator. 3,354,327, 11-21-67, Cl. 310—8.7.

Benson, Gustav E., and W. C. Shafer, to Owens-Corning Fiberglas Corp. Spun roving. 3,324,641, 6-13-67, Cl. 57—34.

Benson, Harold, A. Rickaby, and J. R. Beattie, to Pilkington Brothers Ltd. Apparatus for detecting faults in or on the surface of flat glass. 3,359,853, 12-26-67, Cl. 88—14.

Benson, Harold R., to The Nuarc Co. Dot etch and clearing table. 3,334,567, 8-8-67, Cl. 95—95.

Benson, Herbert L., Jr., and G. S. Mill, to Shell Oil Co. Corrosion inhibition in iodative dehydrogenation using molten salt systems. 3,336,413, 8-15-67, Cl. 260—680.

Benson, John O., to General Mills, Inc. Food processing apparatus. 3,313,247, 4-11-67, Cl. 107—7.

Benson, John O., and J. A. Merboth, to General Mills, Inc. Process for making shaped cereals. 3,332,781, 7-25-67, Cl. 99—81.

Benson, Kenneth B., and F. Davidoff, to Columbia Broadcasting System, Inc. Photographic video recording system having shutter bar compensation. 3,327,054, 6-20-67, Cl. 178—6.7.

Benson, Kenneth L., to General Electric Co. Plural remote controllers for plural motors using a common power connection. 3,355,643, 11-28-67, Cl. 318—55.

Benson Optical Co., The: *See*—
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Benson, Richard E., and E. A. La Lancette, to E. I. du Pont de Nemours and Co. Cyclononatetraenide salts and process of preparing. 3,297,756, 1-10-67, Cl. 260—567.6.

Benson, Robert C., to United States of America, Army. Laser generator. 3,315,177, 4-18-67, Cl. 331—94.5.

Benson, Warren E., Jr., to Forté Engineering Corp. Calibration means for a capacitance moisture-content measuring apparatus including a reference slug for introduction between capacitor plates. 3,311,823, 3-28-67, Cl. 324—61.

Benstead, John C.: *See*—
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Bent, John H.: *See*—
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Bent, John H., and R. G. Coss, to Hamilton Co., Inc. Needle tapering apparatus. 3,332,869, 7-25-67, Cl. 204—223.

Bente, Alfred. Method of producing a sport shoe bottom with fittings therein. 3,302,227, 2-7-67, Cl. 12—142.

Bentele, Max, to Curtiss-Wright Corp. Rotor construction for rotary engines. 3,359,956, 12-26-67, Cl. 123—8.

Bentham, Frederick P., to The Strand Electric and Engineering Co. Ltd. Spotlights. 3,307,028, 2-28-67, Cl. 240—46.03.

Bentley, Gustavus A.: *See*—
Peickii, Vasalle L., Christensen, Bradfute, and Bentley. 3,337,232.

Bentley, John D. Method and apparatus for increasing the speed of clothes dryers. 3,319,347, 5-16-67, Cl. 34—32.

Bentley, John M., to Westinghouse Electric Corp. Counter employing tunnel-diode monostable circuit driving tunnel-diode bistable circuit for each stage. 3,307,046, 2-28-67, Cl. 307—88.5.

Bentley, John M., W. J. Lytle, and C. P. Holt, Jr., to Westinghouse Electric Corp. Analog to digital converter system. 3,316,546, 4-25-67, Cl. 340—347.

Bentley, Kenneth W., to Reckitt & Sons Ltd. 7,8-dihydro-3′,4′-disubstituted cyclohexeno-(1′,2′:14,8)-codeinones. 3,329,682, 7-4-67, Cl. 260—285.

Bentley-Leek, Herbert, to Saunders Valve Co. Ltd. Means for sealing a spindle. 3,351,351, 11-7-67, Cl. 277—115.

Bentley, Thomas A., and C. D. Jackson, to C. D. Jackson Mfg., Inc. Adjustable link. 3,319,488, 5-16-67, Cl. 74—586.

Bentley, William H., Jr., J. S. Kite, III, H. M. Morott, R. L. Nunnally, and D. H. Reinert, to Raychem Corp. Process for coating continuous flexible tubing. 3,359,357, 12-19-67, Cl. 264—173.

Bento, Robert, I. F. Barditch, and C. G. Brooks, to Westinghouse Electric Corp. Frequency selecting signal translation system utilizing a passive voltage network and an active regenerative amplifier. 3,333,207, 7-25-67, Cl. 330—38.

Bento, Robert, I. F. Barditch, and C. G. Brooks, to Westinghouse Electric Corp. Inductanceless frequency selective signal system utilizing transport delay. 3,359,504, 12-19-67, Cl. 330—38.

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Benton, Louis A., and R. M. Lambert, to Johns-Manville Corp. Rotary pump for pumping viscous slurry. 3,323,464, 6-6-67, Cl. 103—103.

Benton, Virgil K., and J. C. Bennett, to Electro Chemical Industries, Inc. Method of making composite vehicle wheel. 3,302,273, 2-7-67, Cl. 29—159.

Bentov, Itzhak E. Pump. 3,313,240, 4-11-67, Cl. 103—151.

Bentsen, Donald L., to Union Carbide Corp. Tilt box hauling and dispensing flowable material. 3,318,434, 4-11-67, Cl. 214—501.

Bentz, Erwin J H., P. J. Costa, and C. E. Fulton, to Caterpillar Tractor Co. Flow sensing device. 3,359,385, 12-19-67, Cl. 200—81.9.

Bentz, Ronald J., and A. N. Laubscher, to United States Steel Corp. Method for the manufacture of tin plate. 3,331,230, 7-18-67, Cl. 72—42.

Bentzman, Louis, to Quik-Chek Electronics and Photo Corp. Removable pressure roller mechanism. 3,330,458, 7-11-67, Cl. 226—90.

Bentzman, Louis, to Quick-Chek Electronics and Photo Corp. Hinged dryer assembly. 3,340,618, 9-12-67, Cl. 34—162.

Bentzman, Louis, to Quick-Chek Electronics and Photo Corp. Paper transport assembly. 3,341,194, 9-12-67, Cl. 271—45.

Benua, Louis P., and T. W. Giller, to Ebco Mfg. Co. Water cooler and dispenser having a replaceable reservoir. 3,333,438, 8-1-67, Cl. 62—395.

Benusa, William F., and N. D. Coggeshall, to Gulf Research & Development Co. Absorption measuring apparatus and method. 3,349,625, 10-31-67, Cl. 73—432.

Benuska, George J., and T. Henry, to Standard Alliance Industries, Inc. Motor powered air hammer. 3,321,033, 5-23-67, Cl. 173—119.

Benz, Adolph. Ribbon pleating and heat pressing device. 3,333,559, 8-1-67, Cl. 112—134.

Benz, Adolph. Apparatus for glazing cakes. 3,339,524, 9-5-67, Cl. 118—24.

Benz, Erwin. Elastic closure for a container opening. 3,300,073, 1-24-67, Cl. 215—42.

Benz & Hilgers G.m.b.H.: *See*—
Reinecke, Gunter. 3,301,550.
Reinecke, Gunter. 3,342,115.
Reinecke, Gunter. 3,352,435.

Benz, Jakob, and H. Uehlinger, to Sandoz Ltd., (a/k/a Sandoz A.G.). Metal-containing reactive monoazo dyestuffs. 3,308,115, 3-7-67, Cl. 260—151.

Benz, Jakob, and H. Uehlinger, to Sandoz Ltd. (a/k/a Sandoz A.G.). Metal-containing reactive monoazo dyestuffs containing a triazine group. 3,354,140, 11-21-67, Cl. 260—146.

Benz, John W., Jr.: *See*—
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Benzel, Howard A., to Aviation Corp. Breathing apparatus exhalation valve with suction control. 3,348,538, 10-24-67, Cl. 128—142.

Benzing, John A., to Heywood-Wakefield Co. Chair construction. 3,337,265, 8-22-67, Cl. 297—285.

Benzing, Louis H.: *See*—
Dewey, Gordon C., and Benzing. 3,344,428.

Benzinger, Theodor H. Reaction vessels for calorimetry apparatus. 3,298,790, 1-17-67, Cl. 23—259.

Beran, Jaromír, D. Misárek, and M. Futera, to Ckd Praha, oborovy podnik. Adjustable diffuser blades. 3,349,997, 10-31-67, Cl. 230—114.

Beranger, Raymond, to North American Philips Co., Inc. Domestic coffee maker. 3,334,572, 8-8-67, Cl. 99—292.

Berard, Edmund. Book index unit. 3,350,801, 11-7-67, Cl. 40—23.

Berardinelli, Frank M.: *See*—
Halek, George W., Berardinelli, Hendry, and Roberts. 3,317,475.

Berardinelli, Frank M., R. J. Kray, and T. J. Dolce, to Celanese Corp. of America. Amidine compounds as thermal stabilizers for oxymethylene polymers. 3,313,767, 4-11-67, Cl. 260—45.8.

Berardinelli, Frank M., and T. J. Dolce, to Celanese Corp. of America. Oxymethylene polymers stabilized with a combination of cyclic amidine compounds and amino substituted amides. 3,314,918, 4-18-67, Cl. 260—45.8.

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Bercaru, Gheorghe, to Ministerul Petrolului. Bearing sealing and lubricating device. 3,303,898, 2-14-67, Cl. 175—228.

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Berchtold, Donald V., W. J. Marsh, and E. E. Little, to The Coleman Co., Inc. Catalytic heater. 3,343,586, 9-26-67, Cl. 158—96.

Berchtold, Glenn A., to E. I. du Pont de Nemours and Co. Chemical process and product. 3,314,921, 4-18-67, Cl. 260—77.5.

Berchtold, Glenn A., to E. I. du Pont de Nemours and Co. Polymers and process of making same. 3,314,922, 4-18-67, Cl. 260—77.5.

Bercik, Paul G., and A. M. Henke, to Gulf Research & Development Co. Hydrogenation of olefinic gasoline. 3,310,485, 3-21-67, Cl. 208—143.

Berck, William F., and L. J. Sundblom, to Rockwell Mfg. Co. Computing counter. 3,317,129, 5-2-67, Cl. 235—61.

Berck, William F., and L. J. Sundblom, to Rockwell Mfg. Co. Tax-computing metering device. 3,358,921, 12-19-67, Cl. 235—94.

Berde, Botond: *See*—
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Berdin, Christoph: *See*—
Kastning, Ernst-Guenther, Naarmann, and Berding. 3,296,220.

Berding, Christoph, H. P. Hofmann, E.-G. Kastning, N. Von Kutepow, H. Naarmann, and H. Reis, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the production of polymers of α-olefins. 3,311,596, 3-28-67, Cl. 260—78.5.

Berec, John F., and R. Bray, to Philco Ford Corp. Converter stage in which oscillator tuned circuit also serves as output load impedance for RF stage. 3,350,648, 10-31-67, Cl. 325—440.

Bereday, Sigmund. Furniture construction. 3,301,597, 1-31-67, Cl. 297—450.

Beregi, Laszlo G., and P. J. Hugon, to Societe en nom collectif dite: "Science Union et Cie Societe Francaise de'Recherche Medicale." Dicyclic sulfanylurea compounds. 3,334,302, 8-1-67, Cl. 260—397.7.

Berenbaum, Morris B., to Thiokol Chemical Corp. Novel amino-polysulfide polymers and their reaction products with polyepoxides. 3,322,851, 5-30-67, Cl. 260—830.

Berenbaum, Morris B., E. Broderick, and R. C. Christena, to Thiokol Chemical Corp. Mercaptoethanol/mercaptopropanol copolymers and process. 3,317,486, 5-2-67, Cl. 260—79.

Berenbaum, Morris B., and G. A. Kanavel, to Thiokol Chemical Corp. Vulcanizing acrylate rubber stock with 2-mercaptoimidazoline. 3,335,117, 8-8-67, Cl. 260—85.5.

Berend, Paul C. Rack, shelf and other like structures. 3,342,347, 9-19-67, Cl. 211—148.

Berend, Peter M., to Rubbermaid Inc. Multiple size drawer divider construction. 3,343,706, 9-26-67, Cl. 220—23.4.

Berends, Emerson R., and E. J. Niehaus, Jr., to Rockwell Mfg. Co. Radial arm saw. 3,334,669, 8-8-67, Cl. 143—6.

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Berendt, Alfred. Apparatus for playing newspaper headline game. 3,326,557, 6-20-67, Cl. 273—130.

Berens, Linus L. Animal rubbing and oiling apparatus. 3,306,264, 2-28-67, Cl. 119—157.

Berens, Linus I. Method and apparatus for cryogenic branding. 3,358,648, 12-19-67, Cl. 119—1.

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Beres, Steven W., and W. R. O'Donnell, to Valve Corp. of America. Dispenser for disposable aerosol container, with valved conduit for remote discharge of its contents. 3,305,144, 2-21-67, Cl. 222—402.13.

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Bereskin, Alexander B.: *See*—
Martin, Daniel W., and Bereskin. 3,322,874.

Bereskin, Alexander B. Transistor test set having input currents related to 10 $n/2$. 3,323,060, 5-30-67, Cl. 324—158.

Bereslavsky, Alexander L., A. A. Naglbin, K. A. Chichoogov, V. P. Gryzhin, and A. P. Koorenkov, to Vsesoluzny Nauchno-Issledovate" Sky Institute Goznaka. Counting machine. 3,319,541, 5-16-67, Cl. 93—93.

Berets, Donald J.: *See*—
Torley, Robert E., and Berets. 3,340,982.

Berex Establishment: *See*—
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Berezlat, André, and G. Janssen, to Societe Astra de Bouchage, Surbouchage & Conditionnement, Societe Anonyme, & Georges Lesieur & Ses Fils, Societe Anonyme. Fluid-tight bottle cap. 3,341,046, 9-12-67, Cl. 215—41.

Berezin, Evelyn, J. Knoll, and E. Leonard, to Digitronics Corp. Information transfer apparatus. 3,312,945, 4-4-67, Cl. 340—172.5.

Berezin, Gilbert H., to E. I. du Pont de Nemours and Co. 3-hydroxymethyl-3-hydroxyoxetane. 3,297,719, 1-10-67, Cl. 260—333.

Berezin, Gilbert H., and G. H. Harris, to The Dow Chemical Co. Esters of hydroxy-aromatic thioacids. 3,338,947, 8-29-67, Cl. 260—455.

Berezin, Gilbert H., G. H. Harris, and B. C. Fischback, to The Dow Chemical Co. Polyhalophenylthioaliphatic acids and their esters and salts. 3,355,383, 11-28-67, Cl. 252—33.6.

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Bereznak, John, to International Telephone and Telegraph Corp. Electronically controlled glass reed switching network. 3,349,186, 10-24-67, Cl. 179—18.

Bereznak, John, to International Telephone and Telegraph Corp. Supervisory signal detector. 3,358,086, 12-12-67, Cl. 179—16.

Berg, Abraham: *See*—
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Berg, Alex, to Goehringer Ingelheim G.m.b.H. Pilomotor shaving compositions and method of using same. 3,296,077, 1-3-67, Cl. 167—85.

Berg, Arthur A., to Berg Mfg. & Sales Co. Tire pressure device. 3,302,682, 2-7-67, Cl. 152—415.

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Berg, Bennie L. Trash container for automobiles. 3,357,614, 12-12-67, Cl. 224—29.

Berg, Clyde H. O. Process and apparatus for cryogenic storage. 3,303,660, 2-14-67, Cl. 62—51.

Berg, Daniel: *See*—
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Berg, David E. Method of assembling an article by using magnets. 3,307,988, 3-7-67, Cl. 156—60.

Berg, David G., to Kaiser Aluminum & Chemical Corp. Shingle structure with reentrant joint configurations and a nailing tab. 3,312,031, 4-4-67, Cl. 52—530.

Berg, Edward T. Construction for extruded reglets. 3,319,384, 5-16-67, Cl. 52—100.

Berg, Edward T. Metal covered roof with deformable sealing pads. 3,320,707, 5-23-67, Cl. 52—395.

Berg, Edward T. Arrangement for securing panels to the surface of a roof or wall. 3,339,329, 9-5-67, Cl. 52—395.

Berg, Edward T. Arrangement for installing battens on panelled roofs and walls. 3,341,999, 9-19-67, Cl. 52—395.

Berg, Edward T. Panel covered structures. 3,353,316, 11-21-67, Cl. 52—302.

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De Shong, George T. 3,346,162.
Mancini, Lloyd. 3,317,888.
Sitzler, Fred C. 3,351,704.

Berg, Gerald L.: *See*—
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Berg, Gerhard, and G. Maass, to Chemische Werke Huls Aktiengesellschaft. Process for the precipitation of highly polymerized hydrocarbons from emulsions thereof containing cation-active emulsifying agents. 3,297,668, 1-10-67, Cl. 260—85.1.

Berg, Harold A.: *See*—
Danielson, Alton J., and Berg. 3,331,729.

Berg, Heinrich: *See*—
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Berg, Herbert, to Siemens & Halske Aktiengesellschaft. Chatter-free contact device. 3,311,730, 3-28-67, Cl. 200—166.

Berg, Howard A., to Columbia Cement Co., Inc. Leak-proof cartridges housing cements, caulking compounds or the like. 3,319,841, 5-16-67, Cl. 222—386.5.

Berg, Jean A.: *See*—
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Berg, John W., to The Bendix Corp. Method of constructing a building. 3,315,343, 4-25-67, Cl. 29—421.

Berg, John W., to G. L. Berg. Contour finishing machine. 3,339,311, 9-5-67, Cl. 51—33.

Berg, Kenneth M., and J. A. Robertson, to FMC Corp. Production of a high-porosity refractory. 3,309,175, 3-14-67, Cl. 23—201.

Berg, Leo: *See*—
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Berg, Lloyd, and W. B. Isaacson. Hydrodesulfurization of crude alpha-pinene. 3,312,750, 4-4-67, Cl. 260—675.5.

Berg, Louis A. Device for fastening lines. 3,349,745, 10-31-67, Cl. 114—230.

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Dobrikin, Harold L., and Horowitz. 3,302,530.
Dobrikin, Harold L., and Horowitz. 3,341,258.
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Klimak, Boleslaw, and Mastis. 3,315,131.

Berg, Otto E., and W. M. Alexander, to United States of America, National Aeronautics and Space Administration. Micro-particle impace sensing apparatus. 3,307,407, 3-7-67, Cl. 73—132.

Berg, Paul O. Apparatus for mixing granular, powdered and the like materials. 3,336,006, 8-15-67, Cl. 259—2.

Berg, Paul O. Apparatus for controlling the flow of finely divided material. 3,360,167, 12-26-67, Cl. 222—199.

Berg, Philip, G. A. Burdick, and A. T. Kuryla, to Sylvania Electric Products Inc. Assembly jig. 3,337,942, 8-29-67, Cl. 29—203.

Berg, Quentin. Method for forming a double curvature connector. 3,327,372, 6-27-67, Cl. 29—155.55.

Berg, Richard D., and W. Lach, to Western Electric Co., Inc. Device for winding an elongated element around an article. 3,338,272, 8-29-67, Cl. 140—93.

Berg, Robert H.: *See*—
Berg, Robert H., and Youngdahl. 3,345,502.
Berg, Robert H., Youngdahl, and Ellison. 3,344,786.

Berg, Robert H., C. A. Youngdahl, and L. E. Ellison; said Youngdahl and said Ellison assors. to said Berg. Syringe structure. 3,344,786, 10-3-67, Cl. 128—215.

Berg, Robert H., and C. A. Youngdahl, to R. H. Berg. Pulse analyzer computer. 3,345,502, 10-3-67, Cl. 235—92.

Berg, Robert S.: *See*—
Howland, Bradford, and Berg. 3,336,662.

Berg, Samuel: *See*—
Forwald, Haakon, Savolainen, and Berg. 3,304,529.

Berg, Willie. Elastic mute for wind instruments. 3,322,015, 5-30-67, Cl. 84—400.

Bergamino, Anthony. Traveling step-by-step power jack. 3,334,866, 8-8-67, Cl. 254—108.

Bergan, Reuben A., to United States of America, National Science Foundation. Apparatus for indicating the length of core in a core barrel. 3,344,872, 10-3-67, Cl. 175—46.

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Bergdahl, Robert F., to Sylvania Electric Products, Inc. Chrominance channel amplifier and control circuit arrangement. 3,327,052, 6-20-67, Cl. 178—5.4.

Bergeijk, Jan V., and H. Nieuwenhuijsen, to American Enka Corp. Laminar flow device. 3,353,564, 11-21-67, Cl. 138—41.

Bergel, James A., and T. R. Kurliuk. Barbecue grill. 3,311,105, 3-28-67, Cl. 126—137.

Bergemann, William E.: *See*—
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Bergendal, Gunnar. Dental X-ray film holder with plural grooves opening in opposite directions to support X-ray films. 3,356,845, 12-5-67, Cl. 250—70.

Bergendal, Gunnar, and K.-G. Soderqvist. Dental waste cups and holders for use with the same. 3,337,042, 8-22-67, Cl. 206—63.5.

Bergener, Carol M. Stairstep device for teaching numbers. 3,311,996, 4-4-67, Cl. 35—31.

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Berger, Allen L., R. Mason, and D. B. Pall, to Pall Corp. Filter. 3,308,958, 3-14-67, Cl. 210—487.

Berger, Arthur, and E. E. Borgaes, to Baxter Laboratories, Inc. Compositions and methods of treating convulsant seizures. 3,318,772, 5-9-67, Cl. 167—65.

Berger, Arthur, E. E. Borgaes, and J. C. Longstreet, to Baxter Laboratories, Inc. Halogenated and methylated-benzyl aminoguanidines. 3,336,385, 8-15-67, Cl. 260—564.

Berger, Barron D., to National Electric Welding Machines Co. Mechanical device. 3,344,647, 10-3-67, Cl. 72—354.

Berger, Bernard A., to Northern Electric Co. Ltd. Apparatus for component assembly. 3,299,494, 1-24-67, Cl. 29—203.

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Berger, Frank M., F. Dursch, and B. J. Ludwig, to Carter-Wallace, Inc. Lowering blood cholesterol levels in warm-blooded animals with phenoxy-ethoxy or phenoxy-propoxy amine derivatives. 3,342,678, 9-19-67, Cl. 167—65.

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Berger, Isaac, and J. F. Schmidt, to Carrier Corp. Control apparatus for refrigeration system. 3,312,081, 4-4-67, Cl. 62—158.

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Gottfried, Louis, and Berger. 3,299,450.

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Bergeson, Richard P., and C. D. Cotton, to The Maytag Co. Clothes drier structure and control. 3,300,869, 1-31-67, Cl. 34—45.

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Berghaus, Bernhard, to Elektrophysikalische Anstalt Bernhard Berghaus. Apparatus for performing chemical and other processes under the action of gas ions. 3,324,027, 6-6-67, Cl. 204—312.

Berghaus, Bernhard, to IONON G.m.b.H. Method and apparatus for controlling glow discharge processes. 3,345,280, 10-3-67, Cl. 204—164.

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Bergholdt, William, and E. W. Bauer, to Lockheed Aircraft Corp. Method of and apparatus for flattening sheet beryllium. 3,350,913, 11-7-67, Cl. 72—342.

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Bieger, Jacob J., and W. Henninger, to Daco Instrument Co. Magnetic device having a permanently magnetized rotor. 3,311,859, 3–28–67, Cl. 335—230.
Biegler, Hanns, W. Neugebauer, and H. Kempers, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of finely divided amorphous silica. 3,311,451, 3–28–67, Cl. 23—182.
Biehl, Arthur T.: *See*—
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Gustavson, Marvin R., Sawle, and Biehl. 3,298,920.
Hengel, Mathew C., Biehl, and Mainhardt. 3,318,188.
Mawhinney, Robert C., Gould, Biehl, Mainhardt, and Barton. 3,344,711.
Biehl, Arthur T., and R. Mainhardt. Underwater weapon. 3,313,207, 4–11–67, Cl. 89—1.813.
Biehl, Arthur T., and R. Mainhardt. Underwater weapon. 3,323,457, 6–6–67, Cl. 102—48.
Biehl, Arthur T., and R. Mainhardt, to MB Associates. Nozzle insert. 3,343,766, 9–26–67, Cl. 244—3.22.
Biehl, Arthur T., and R. Meinhardt, to MB Associates. Method of manufacturing a miniature rocket. 3,345,902, 10–10–67, Cl. 86—1.
Biehl, Heinrich. Method of freeing pigs from sicknesses which are transferred to the piglets from the mother sow. 3,303,818, 2–14–67, Cl. 119—1.
Biehl, Heinrich. Apparatus for the preparation of a fodder mixture for subsequent ensilage. 3,316,830, 5–2–67, Cl. 99—235.
Biehl, Heinrich. Cleaning apparatus for cages. 3,343,522, 9–26–67, Cl. 119—22.
Biehl, Heinrich. Feeding devices for animals, more especially pigs. 3,359,947, 12–26–67, Cl. 119—51.12.
Biehl, Richard E., to Curtiss-Wright Corp. Concatenated series of propellant charges. 3,302,568, 2–7–67, Cl. 102—34.5.
Biel, John H., to Colgate-Palmolive Co. Phenylalkylhydrazine compositions. 3,334,017, 8–1–67, Cl. 167—65.
Biel, John H., to Aldrich Chemical Co., Inc. N(aryl) N(hydrocarbyl)-ω-(4-phenyl-4-piperidinocarbonyl heteroamine) alkano amide. 3,334,106, 8–1–67, Cl. 260—294.
Biel, John H., to Colgate-Palmolive Co. N-nitroso-N-phenylalkyl-amines. 3,359,316, 12–19–67, Cl. 260—570.8.
Biel, John H., and H. B. Hopps, to Aldrich Chemical Co., Inc. N-cyclopropyl amides of 4-phenyl piperidino-alkanoic acids. 3,301,862, 1–31–67, Cl. 260—293.4.
Biel, John H., and C. E. Aiman, to Aldrich Chemical Co., Inc. 2,6-bis(aminoalkyl)-3-piperidinols. 3,310,567, 3–21–67, Cl. 260—294.7.
Biel, John H., and E. Jaeger, to Aldrich Chemical Co., Inc. 4-hydroxy-3-pyrrolidinemethanols. 3,312,716, 4–4–67, Cl. 260—326.5.
Biel, John H., and E. R. Jaeger, to Aldrich Chemical Co., Inc. Substituted N-propargyloxy-phthalimide. 3,337,560, 8–22–67, Cl. 260—294.
Biel, John H., and H. B. Hopps, to Aldrich Chemical Co., Inc. N-phenyl amides of 4-phenyl-4-hydroxy-piperidino alkyl acids. 3,350,403, 10–31–67, Cl. 260—294.
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Bielski, Alex J., to General Instrument Corp. Sealed magnetic memory assembly. 3,325,798, 6–13–67, Cl. 340—174.1.
Bielstein, George P. R., and A. P. Martin; said Bielstein assor. to British Insulated Callender's Cables Ltd. and said Martin assor. to Telcon Metals Ltd. Temperature sensing means and method for electric cables. 3,347,098, 10–17–67, Cl. 73—342.
Bielstein, Walter J., to Esso Production Research Co. Completion of wells. 3,307,626, 3–7–67, Cl. 166—4.
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Bien, Alfred A., to Chrysler Corp. Nut with resilient arms. 3,314,465, 4–18–67, Cl. 151—41.75.
Bien, Alfred A., to Chrysler Corp. Self-threading nut. 3,350,975, 11–7–67, Cl. 85—32.
Bien, Hans-Samuel, K. Wunderlich, and F. Baumann, to Farbenfabriken Bayer Aktiengesellschaft. Water-insoluble 4-hydroxy coumarin mononzo dyestuffs. 3,344,132, 9–26–67, Cl. 260—152.
Bienenfeld, Norman, B. H. Abedon, R. E. Primeau, and A. I. Blackman, to The Alumiline Corp. Entrance construction. 3,307,294, 3–7–67, Cl. 49—381.
Biener, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing β-lactams. 3,297,683, 1–10–67, Cl. 260—239.
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Bierlich, Johannes H. Valance and curtain or drapery supports. 3,347,304, 10–17–67, Cl. 160—19.
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Biermann, Wendell J., to Beryloy Ltd. (no personal liability). Method for the chemical beneficiation of berylite. 3,295,962, 1–3–67, Cl. 75—115.
Biermann, Wendell J. Absorption refrigeration systems. 3,316,728, 5–2–67, Cl. 62—112.
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Bies, Frank R., and R. A. Sykes, to Bell Telephone Laboratories, Inc. T-network having single center-tapped high-Q inductor in its series branches and a low-Q inductor in shunt. 3,344,369, 9–26–67, Cl. 333—72.
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Biesma, Louw A., and J. Moerman, to North American Philips Co., Inc. Coil and lead-in wire connection. 3,315,198, 4–18–67, Cl. 336—192.
Biet, Alfred G. P., to Societe Anonyme: Etablissements Kuhlmann. Cyclic process for the recovery of bromine from mixtures of hydrobromic and sulfuric acids. 3,305,316, 2–21–67, Cl. 23—216.
Biet, Jean-Pierre, to Compagnie Generale d'Electricite. Gate-controlled turn-on and turn-off symmetrical semi-conductor switch having single control gate electrode. 3,337,750, 8–22–67, Cl. 307—88.5.
Biet, Jean-Pierre, to Compagnie Generale d'Electricite. Control and regulation device including a semiconductor of symmetrical blocking-unblocking type. 3,346,802, 10–10–67, Cl. 323—4.
Biet, Jean-Pierre, and J. Chaupit, to Compagnie Generale d'Electricite. Device comprising a semiconductor switch for adusting the power supplied to an electric apparatus by an alternating-current source. 3,333,182, 7–25–67, Cl. 323—22.
Biet, Jean-Pierre, and J. Chaupit, to Compagnie Generale d'Electricite. Device for adjusting the consumption of and protecting an apparatus supplied with alternating current. 3,355,657, 11–28–67, Cl. 323—22.
Blezunski, Georges, J. Maugest, and R. Peres, to Compagnie Generale d'Automatisme, Societe Octel, and Compagnie d'Applications et Recherches Atomiques. Device for the mixing of liquids. 3,353,711, 11–21–67, Cl. 222—28.
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Biggam, Frank D., to Teletype Corp. Relay flip-flop circuit. 3,351,819, 11–7–67, Cl. 317—140.
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Biggs, Ariel C., and M. R. Turner, to Angeles Metal Trim Co. Metal internal-wall structure for shelf supporting brackets and wallboard. 3,305,981, 2–28–67, Cl. 52—36.
Biggs, Ernest R., Jr., and R. Arganbright. Weighted training spat. 3,306,610, 2–28–67, Cl. 272—57.
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Bigler, Theodore G., to Westinghouse Electric Corp. Delicate object container mounted on dryer door. 3,344,532, 10–3–67, Cl. 34—133.
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Biglin, Duane O., to Owens-Illinois, Inc. Container and closure cap for same. 3,339,792, 9–5–67, Cl. 220—60.
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Biguenet, Charles, to CFS-Compagnie Generale de Telegraphie Sana Fil. Low-noise type traveling wave tube with an electrostatic field retarding spurious electron flow. 3,325,669, 6–13–67, Cl. 315—3.5.
Bihlmaier, Oakar, to Voigtlander. A.G. Electronic flash assemblies for photographic purposes. 3,358,573, 12–19–67, Cl. 95—11.0.
Bihlmire, Otto L. Hub construction for boat propellers. 3,307,634, 3–7–67, Cl. 170—160.54.
Bihlmire, Otto L. Marine propeller. 3,318,388, 5–9–67, Cl. 170—160.5.
Bijvoet, Leonardus A. N., to Inland Steel Co. Method and apparatus for forming a plurality of axially spaced beads in a hollow, substantially cylindrical sheet metal blank. 3,349,600, 10–31–67, Cl. 72—393.
Bijvoet, Leonardus A. N., to Inland Steel Co. Reinforcement structure for shipping containers made of light gauge steel or the like. 3,349,952, 10–31–67, Cl. 220—67.
Bikales, Norbert M., to American Cyanamid Co. Flotation process with cyanovinyl dithiocarbamates. 3,298,520, 1–17–67, Cl. 209—165.
Bikales, Norbert M., to American Cyanamid Co. Flotation process with 2-cyanovinyl alkylxanthates. 3,301,400, 1–31–67, Cl. 209—166.
Bikales, Norbert M., to American Cyanamid Co. Flotation process with cyanoethyl alkylxanthate esters. 3,353,671, 11–21–67, Cl. 209—166.
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Bilane, Roland B., to Johnson & Johnson. Apparatus for continuously folding and cutting off web material. 3,337,211, 8–22–67, Cl. 270—76.
Bilbao, Benjamin. Apparatus to serve in game, toy, educational and display devices. 3,326,552, 6–20–67, Cl. 273—1.
Bilbrey, Robert A., to Benjamin W. West, d.b.a., California Controls Co. Acceleration responsive device. 3,307,394, 3–7–67, Cl. 73—71.
Bilbro, James E., to Thermon Mfg. Co. Electric pipe heater. 3,331,946, 7–18–67, Cl. 219—535.
Bild, Frederick, and W. Robinson, to Imperial Chemical Industries Ltd. Manufacture of plastic tubes. 3,300,555, 1–24–67, Cl. 264—95

Bilde, Tord E. D., to Aktiebolaget Electrolux. Surface treating apparatus. 3,354,488, 11–28–67, Cl. 15—49.

Bilderback, Robert R., to United States of America, National Aeronautics and Space Administration. Amplitude modulated laser transmitter. 3,341,708, 9–12–67, Cl. 250—199.

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Biles, Jerry W., and J. A. King, to Cities Service Oil Co. Method and composition for improving and maintaining the capacity of water injection wells. 3,335,793, 8–15–67, Cl. 166—9.

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Billsoly, Julius P., to Esso Research and Engineering Co. Synthetic crystalline zeolite compositions and preparation thereof. 3,322,690, 5–30–67, Cl. 252—455.

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Wilde, Geoffrey L., Bill, and Coplin. 3,299,632.
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Bill, Arthur, and T. Steel, to Rolls-Royce Ltd. Axial fluid flow machine such as a compressor or turbine. 3,339,833, 9–5–67, Cl. 230—133.

Bill, Arthur, T. Steel, and M. Poucher, to Rolls-Royce Ltd. Aerofoil-shaped fluid-cooled blade for a fluid flow machine. 3,353,351, 11–21–67, Cl. 60—39.65.

Billarant, Jean. Machine for producing separable fastening elements. 3,345,688, 10–10–67, Cl. 18—5.

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Billawala, Shahbuddin A., to Burroughs Corp. Mounting and actuating apparatus for a magnetic head. 3,320,599, 5–16–67, Cl. 340—174.1.

Bille, Heinz, H. Distler, G. Dittus, W. Mueller, and W. Ruettiger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Modification of cellulose with tetra-sulfatoesters of disulfonium salts. 3,346,325, 10–10–67, Cl. 8—120.

Bille, Kenneth L., S. R. Newman, and R. R. Heisler, to Texaco Inc. Anti-stalling motor fuel. 3,325,260, 6–13–67, Cl. 44—58.

Billeb, Clyde K., to Milprint, Inc. Method and apparatus for wrapping deformable articles. 3,328,936, 7–4–67, Cl. 53—28.

Biller, Efim, G. Nettesheim, and G. Stern, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Process for the product of hydrated olefins. 3,355,501, 11–28–67, Cl. 260—614.

Biller, William P., and C. W. Skarstrom, to Esso Research and Engineering Co. Process and device for preventing evaporation loss. 3,352,294, 11–14–67, Cl. 123—136.

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Billeter, Henry R., to Sloan Valve Co. Double acting slack adjuster. 3,326,335, 6–20–67, Cl. 188—202.

Billeter, Henry R., to Sloan Valve Co. Braking arrangement for railway trailer cars. 3,337,011, 8–22–67, Cl. 188—197.

Billeter, Henry R., and A. B. Nelson, to Sloan Valve Co. Control valves. 3,327,992, 6–27–67, Cl. 251—267.

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Billi, Giorgio. Circular-knitted stockings and method. 3,320,774, 5–23–67, Cl. 66—182.

Billi, Walter, to Montecatini Edison S.p.A. Process and device for quenching and removing tars and carbon black from a pyrolysis gas obtained in the production of acetylene. 3,315,005, 4–18–67, Cl. 260—679.

Billig, Franklin A.: *See*—
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Billingham, Carroll A., and K. W. Daring, to Belvedere Products, Inc. Tiltable beautician's chair. 3,326,604, 6–20–67, Cl. 297—328.

Billinghurst, John E. W., to Burroughs Wellcome & Co. (U.S.A.) Inc. 2-(2-picolylamino)-2-imidazoline derivatives. 3,359,274, 12–19–67, Cl. 260—296.

Billings, Bruce H., to Baird-Atomic, Inc. Electro-optic valve with polarizing beam splitter and reinforcement. 3,346,319, 10–10–67, Cl. 350—150.

Billings, Ira J., to Automatic Sprinkler Corp. of America. Interlocking handles for a fire extinguisher. 3,356,149, 12–5–67, Cl. 169—30.

Billings, Miro, to The Dow Chemical Co. Plastic bottle blowing and reaming apparatus. 3,339,229, 9–5–67, Cl. 18—5.

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Billingsley, John G. S., H. E. Ramsey, and P. G. Stephan, to E. I. du Pont de Nemours and Co. Apparatus and process for packaging articles in shrinkable films. 3,295,290, 1–3–67, Cl. 53—28.

Billingsley, John G. S., J. J. D'Angelo, A. Lubisco, F. G. Maros, and P. G. Stephan, to E. I. du Pont de Nemours and Co. Apparatus for heat-sealing films. 3,338,770, 8–29–67, Cl. 156—359.

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Billman, John H., and R. Chernin, to Indiana University Foundation. Method of precipitating metal ions with 8-sulfonamidoquinolines. 3,337,555, 8–22–67, Cl. 260—270.

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Bills, Charles T., and P. A. Yurcick, to Catalin Corp. Resins formed from formaldehyde, resorcinol and 4,4-bis-(4-hydroxy-phenyl)-pentanoic acid or amide thereof. 3,298,985, 1–17–67, Cl. 260—29.3.

Bills, Charles T., and P. A. Yurcick, to Ashland Oil & Refining Co. Resinous foundry core binder. 3,346,534, 10–10–67, Cl. 260—39.

Bills, Daniel G., and K. A. Warren, to Granville-Phillips Co. Ultra-high vacuum coupling and gasket subassembly therefor. 3,298,719, 1–17–67, Cl. 285—336.

Bills, Daniel G., and K. A. Warren, to Granville-Phillips Co. High vacuum cold trap. 3,304,731, 2–21–67, Cl. 62—55.5.

Bills, William T., and H. G. Seitz, to United States Rubber Co. Collapsible drum. 3,297,511, 1–10–67, Cl. 156—420.

Billson, Frederick W., to Sanders Valve Co. Ltd. Seating ring for valves for the control of fluids. 3,346,233, 10–10–67, Cl. 251—172.

Billue, Robert F., to Thiele Kaolin Co. Fractured clay. 3,343,973, 9–26–67, Cl. 106—288.

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Schatzki, Erich, Schleeweiss, and Richardson. 3,315,278.
Schleeweiss, Robert. 3,302,825.

Bilocq, Georges A., to Forano Limitee. Long log ejector. 3,329,251, 7–4–67, Cl. 198—24.

Bilodeau, Lucien J. Hook bracket for apertured board. 3,319,917, 5–16–67, Cl. 248—225.

Bilotti, Anthony G., to Warner-Lambert Pharmaceutical Co. Sugarless gum. 3,352,689, 11–14–67, Cl. 99—135.

Bily, Peter J., to FMC Corp. Fluid transferring arm. 3,340,907, 9–12–67, Cl. 141—387.

Bimba, Charles W. Fluid motor with removable-locking end closure unit. 3,334,773, 8–8–67, Cl. 220—39.

Bimber, Russell M., to Diamond Alkali Co. Polychloro derivatives of mono and di-cyano pyridines and a method for their preparation. 3,325,503, 6–13–67, Cl. 260—294.9.

Bimberg, Elmer M., to The Bendix Corp. Carburetor. 3,333,833, 8–1–67, Cl. 261—41.

Bina, Robert A., to Sperry Rand Corp. Data processing system. 3,302,177, 1–31–67, Cl. 340—172.5.

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Natta, Giulio, Mazzanti, Pregaglia, and Binaghi. 3,337,502.
Natta, Giulio, Pregaglia, Mazzanti, and Binaghi. 3,351,613.

Binder, Burton A., to Binder & Lark Building Co. Self-leveling drain inlet. 3,311,129, 3–28–67, Cl. 137—578.

Binder, Georg, to Robert Bosch, G.m.b.H. Three-phase generator with direct current output. 3,329,840, 7–4–67, Cl. 310—68.

Binder, Georg, W. Ehrmann, and H. Mittag, to Robert Bosch, G.m.b.H. Three-phase generator. 3,329,841, 7–4–67, Cl. 310—68.

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Sulo, Jozef, and Binder. 3,306,943.

Binder, Hans, H. Mayr, J. Sulo, and J. Turowski, to Rutgerswerke und Teerverwertung Aktiengesellschaft. Process for preparing 1,3-dimethyl-4-isopropylbenzol and 1,3-dimethyl-4,6-diisopropylbenzol. 3,337,647, 8–22–67, Cl. 260—671.

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Binder, Horst: *See*—
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Binder, Burton A. 3,311,129.

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Binder, Wilhelm, Hauer, and Oberecker. 3,301,365.

Binder, Pierre, and Y. J. F. Lecouffe, to Societe des Accumulateurs Fixes et de Traction. Electric cells with spiral wound electrodes. 3,298,871, 1–17–67, Cl. 136—175.

Binder, Richard, and W. Herold, to Fichtel & Sachs A.G. Clutch release bearing assembly. 3,357,529.

Binder, Richard J., to Monsanto Co. Apparatus and process for preparing semiconductor rods. 3,321,299, 5–23–67, Cl. 75—10.

Binder, Rolf, H. Lamparter, and P. Stahell, to Rieter Machine Works Ltd. Automatic carding and drawing assembly. 3,300,817, 1–31–67, Cl. 19—.21.

Binder, Rolf, and P. Stahell, to Rieter Machine Works Ltd. Automatic can changer. 3,323,177, 6–6–67, Cl. 19—159.

Binder, Wilhelm, R. Hauer, and W. Oberecker, to Binder Magnete K.G. Electromagnetically actuating clutches. 3,301,365, 1–31–67, Cl. 192—84.

Binderman, Walter. Extendable and shortenable candle. 3,308,638, 3–14–67, Cl. 67—55.

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Binding, Kenneth W., to Market Forge Co. Self-winding seat belt reel. 3,337,155, 8–22–67, Cl. 242—107.

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Bindler, Jakob, and A. Pugin, to J. R. Geigy, A.G. Process for dyeing polyamide textile materials and auxiliaries therefor. 3,307,901, 3–7–67, Cl. 8—54.

Bindler, Jakob, and E. Durr, to J. R. Geigy A.G. Process for the dyeing of polyacrylonitrile fibers. 3,355,243, 11–28–67, Cl. 8—55.

Bindler, Leonard, to Cosmetically Yours, Inc. Cosmetic product package. 3,341,006, 9–12–67, Cl. 206—78.

Bindszus, William. Automatic cutter grinder. 3,304,660, 2–21–67, Cl. 51—56.

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Bing, Herbert A.: *See*—
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Bing, Herbert A., and P. Boone, to Polaroid Corp. Camera apparatus. 3,295,425, 1–3–67, Cl. 95—11.

Bing, Herbert A., W. L. Hanna, and D. S. Wilson, to Polaroid Corp. Apparatus for withdrawing film units from a film pack. 3,316,824, 5–2–67, Cl. 95—1.

Bingeman, Wilbur H., T. W. Blickwedel, and L. R. Wanner, to Sylvania Electric Products Inc. Multiple cell container. 3,320,095, 5–16–67, Cl. 136—166.

Bingham, Alan E., to Vickers-Armstrongs (Engineers) Ltd. Air-cushion borne vehicles. 3,302,738, 2–7–67, Cl. 180—7.

Bingham, Clifford R., to Honeywell Inc. Thermocouple comprising intimately twisted wires. 3,317,353, 5–2–67, Cl. 136—233.

Bingham, Francis R.: *See*—
Dortort, Isadore K., and Bingham. 3,302,122.

Bingham, Francis R., to I-T-E Circuit Breaker Co. Base load circuit for semiconductor rectifier. 3,344,359, 9–26–67, Cl. 330—8.

Bingham, George H., to Cambridge Rubber Co. Method of making outer soles for footwear. 3,303,250, 2–7–67, Cl. 264—145.

Bingham, Kenneth C. A., P. Mossman, D. M. Rushmer, and M. Williams, to The General Electric Co. Ltd. Thin film magnetic storage device. 3,325,792, 6–13–67, Cl. 340—174.

Bingham, Markham R.: *See*—
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Bingham, Richard. Weed killing apparatus. 3,299,842, 1–24–67, Cl. 111—7.2.

Bingham, Richard S. and M. R. Bulk handling container construction. 3,342,364, 9–19–67. Cl. 217—69.

Bingham, Sidney H. Motor mounting means. 3,325,126, 6–13–67, Cl. 248—2.

Bingham, Sidney H. Railroad track with braking surfaces for high speed trains. 3,339,675, 9–5–67, Cl. 188—43.

Bingham, Sidney H. Guideway for high-speed mass transportation systems. 3,345,952, 10–10–67, Cl. 104—124.

Bingham, William H. Cable duct installation tool. 3,347,521, 10–17–67, Cl. 254—29.

Bingham, William L., and E. W. Kammer, to United States of America, Navy. Method for determining direction and magnitude of residual stresses in structures. 3,336,834, 8–22–67, Cl. 88—14.

Bingham, William R.: *See*—
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Bingmann, Waldemar, and E. Behr, to Dynamit Nobel Aktiengesellschaft. Electrically insulating rail joint connections. 3,344,990, 10–3–67, Cl. 238—159.

Bini, Riccardo. Continuous bread-making machine. 3,349,725, 10–31–67, Cl. 107—36.

Binkley, Howard M. Self-reaming rock drill coupling. 3,313,364, 4–11–67, Cl. 175—325.

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Soule, Winsor, Jr., and Binnall. 3,353,163.

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Bowe, Leon E., Binning, and Null. 3,350,418.
Null, Harold R., Bowe, and Binning. 3,335,179.
Null, Harold R., Bowe, and Binning. 3,350,419.

Binning, Robert C., to Monsanto Co. Production and recovery of oxygenated hydrocarbons by plural distillation. 3,350,415, 10–31–67, Cl. 260—348.5.

Binning, Robert C., and G. F. Crum, to Monsanto Co. Extraction distillation of olefin oxides with a hydrocarbon solvent. 3,337,425, 8–22–67, Cl. 203—52.

Binning, Robert C., H. R. Null, and S. L. Reid, to Monsanto Co. Preparation and recovery of acetic acid. 3,337,620, 8–22–67, Cl. 260—533.

Binning, Robert C., and G. F. Crum, to Monsanto Co. Extractive distillation of olefin oxides with a paraffin or paraffin naphtha solvent. 3,338,800, 8–29–67, Cl. 203—52.

Binning, Robert C., H. R. Null, and S. L. Reid, to Monsanto Co. Production and recovery of oxygenated hydrocarbons by plural distillation. 3,350,416, 10–31–67, Cl. 260—348.5.

Binning, Robert C., and H. R. Null, to Monsanto Co. Production and recovery of propylene oxide by plural stage distillation and caustic addition. 3,350,417, 10–31–67, Cl. 260—348.5.

Binning, Robert C., L. E. Bowe, and H. R. Null, to Monsanto Co. Production and recovery of oxygenated hydrocarbons by plural distillation. 3,350,421, 10–31–67, Cl. 260—348.5.

Binning, Robert C., L. E. Bowe, and H. R. Null, to Monsanto Co. Production and recovery of acetic acid by plural distillation. 3,350,445, 10–31–67, Cl. 260—533.

Binnis, Kenneth, to British Titan Products Co. Ltd. Corrosion-inhibiting titanium dioxide pigments. 3,345,187, 10–3–67, Cl. 106—14.

Binns, Jack N. Recirculating bearing arrangement. 3,311,426, 3–28–67, Cl. 308—6.

Binns, Jack N., C. E. Clutter, and R. G. Heaton, said Clutter and said Heaton assors. to said Binns. Apparatus for chucking workpieces. 3,302,499, 2–7–67, Cl. 82—40.

Binns, John W.: *See*—
Crosswell, Flay D., and Binns. 3,352,585.

Binns, Philip G., to Rolls-Royce Ltd. Rocket propulsion motors. 3,355,888, 12–5–67, Cl. 60—223.

Binsbergen, Frederik L., to Shell Oil Co. Polymer crystallization 3,326,880, 6–20–67, Cl. 260—93.7.

Binsbergen, Frederik L., to Shell Oil Co. Polymer crystallization. 3,327,020, 6–20–67, Cl. 260—878.

Binsbergen, Frederik L., and P. W. O. Wijga, to Shell Oil Co. Polymer composition and preparation. 3,299,029, 1–17–67, Cl. 260—93.7.

Binsbergen, Frederik L., to Shell Oil Co. Polymer crystallization method. 3,327,021, 6–20–67, Cl. 260—878.

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Scarr, George E., and Binstead. 3,350,750.

Binvignat, Rene G. Dismountable fishing rod. 3,310,903, 3–28–67, Cl. 43—18.

Binvignat, Rene G. Device for fastening a rell on a fishing-rod and fishing-rod provided with this device. 3,310,904, 3–28–67, Cl. 43—22.

Binzenhofer, Alfred, to International Standard Electric Corp. Assembly of printed circuit boards. 3,327,175, 6–20–67, Cl. 317—101.

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Biochemie Gesellschaft mit beschrankter Haftung: *See*—
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Farr, Andrew F. 3,355,098.

Bio-Dynamics, Inc.: *See*—
Degelman, John. 3,344,259.

Biofarma, Seine: *See*—
Servier, Jacques. 3,305,445.

Biolik, Alexander. Adjustable sick-bed bolster. 3,333,286, 8–1–67, Cl. 5—327.

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Gottfried, Siegfried, and Baxendale. 3,328,246.

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Birch, David W., and K. F. Hebdon, to Delevan Electronics Corp. Automatic winding machine. 3,348,782, 10–24–67, Cl. 242—9.

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Birch, Ian H., to Adolph Gottscho, Inc. Marking apparatus. 3,304,856, 2–21–67, Cl. 101—27.

Birchall, John M.: *See*—
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Haszeldine, Robert N., and Birchall. 3,321,531.
Haszeldine, Robert N., Birchall, and Umfreville. 3,310,543.

Birchall, Thomas M., and R. St. J. Richards, to Production Engineering Research Assn. of Great Britain. Dynamometers. 3,298,224, 1–17–67, Cl. 73—134.

Birchenough, James M. P., to International Standard Electric Corp. Electro-optical intelligence storage apparatus. 3,310,788, 3–21–67, Cl. 340—173.

Bird, Dennis W., O. S. Johnson, H. R. Bennett, and G. D. Leeder, to Associated Electrical Industries Ltd. Electric trailing cables with failure limiting means. 3,322,889, 5–30–67, Cl. 174—113.

Bird Electronics Corp.: *See*—
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Scott, Robert J. 3,356,916.
Stevens, Harold E. 3,312,926.
Stevens, Harold E., and Lesyk. 3,300,737.

Bird, Forrest M., and H. L. Pohndorf. Pressure and volume limiting ventilating apparatus. 3,331,368, 7–18–67, Cl. 128—145.8.

Bird, Forrest M., and H. L. Pohndorf. Volume limiting ventilating apparatus. 3,347,228, 10–17–67, Cl. 128—145.8.

Bird, Forrest M., and H. L. Pohndorf. Nebulizer. 3,353,536, 11–21–67, Cl. 128—194.

Bird, George R. to Polaroid Corp. Radiation responsive apparatus for monitoring a web. 3,325,649, 6–13–67, Cl. 250—219.

Bird, George R., and W. E. Gray, Jr., to Polaroid Corp. Inert lamp reflector. 3,325,666, 6–13–67, Cl. 313—113.

Bird, Jack R., M. A. Wheeler, and G. W. Meetham, to Rolls-Royce Ltd. Solution treatment of nickel-chromium-cobalt alloys. 3,333,996, 8–1–67, Cl. 148—162.

Bird, Joseph J., and M. H. Comer, to Alamance Industries, Inc. Pick and run resistant stocking and method of forming same. 3,301,017, 1–31–67, Cl. 66—178.

Bird, Joseph W., to Elco Corp. Connector for thin film circuits. 3,315,217, 4–18–67, Cl. 339—176.

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Baker, Donald B., and Nelson. 3,300,374.
Cook, Horace F. 3,321,131.
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Reynolds, Eugene F., and Kleimola. 3,316,143.
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Bird & Son, Inc.: *See*—
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Bird, Walter J., to British Aircraft Corp. (Operating) Ltd. Mechanisms incorporating recirculating ball screw-jacks. 3,304,794, 2–21–67, Cl. 74—409.

Bird, Walter W., to Birdair Structures Inc. Air inflated structures. 3,346,441, 10–10–67, Cl. 161—36.

Bird, Walter J., to British Aircraft Corp. (Operating) Ltd. Aeroplanes having wings pivotable in sweep. 3,356,317, 12–5–67, Cl. 244—46.

Bird, Walter W., and G. F. Reitmeier, Jr., to United States of America, Air Force. Support with adjusting means. 3,325,887, 6–20–67, Cl. 29—256.

Birdair Structures Inc.: *See*—
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Birdsall, Charles K., to The Regents of the University of California. Two-stream cyclotron wave amplifier. 3,346,819, 10–10–67, Cl. 330—44.

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Metzger, Wilford E., Jr. 3,354,684.
Peterson, Edward C. 3,316,788.

Birdwell, Benjamin F., to Anel Engineering Industries, Inc. Interlocking structural system for buildings. 3,304,680, 2–21–67, Cl. 52—332.

Birdwell, Dewie W. Pulsation reducer. 3,333,604, 8–1–67, Cl. 138—30.

Birdwell, J. C. Pressure fluid motor. 3,339,460, 9–5–67, Cl. 91—56.

Birsley, Richard L., to United States of America, Navy. Coupling circuit for low impedance sensing element. 3,304,514, 2–14–67, Cl. 330—189.

Birfield Engineering Ltd.: *See*—
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Birgbauer, Gordon J., Jr., to Lear Siegler, Inc. Frame element for supporting sinuous spring strips. 3,308,487, 3–14–67, Cl. 5—260.

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Dautch, Lewis B. 3,315,936.

Birge, William T.: *See*—
Ayers, David T., Jr., and Birge. 3,298,466.

Birginal, Sylvester J. Invertable table top support for machines. 3,310,352, 3–21–67, Cl. 312—30.

Birk, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Sealing means for rotary drum heat exchanger. 3,355,817, 12–5–67, Cl. 34—124.

Birk, Ted W. Rotary internal combustion engine. 3,299,866, 1–24–67, Cl. 123—17.

Birkelo, Einar P., and T. N. Johnson, to Rayette-Faberge, Inc. Process for preparing higher fatty alkyl di-lower-alkylbenzyl ammonium halides. 3,311,659, 3–28–67, Cl. 260—567.6.

Birkenheuer, Joseph K. Collapsible sleeping compartment for automobiles. 3,321,876, 5–30–67, Cl. 52—66.

Birkenmeyer, Robert D.: *See*—
Bannister, Brian, Birkenmeyer, and Kagan. 3,316,243.

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Birkhead, Claude D.: *See*—
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Birkholtz, Gottfried, to Carl Scheuck Maschinenfabrik G.m.b.H. Device for measuring force. 3,320,802, 5–23–67, Cl 73—141.

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Birkic, George M. Bowling lanes and means associated therewith for exercising and correcting bodily movements. 3,317,208, 5–2–67, Cl. 273—54.

Birkle, Hans, to Siegner Maschinenbau G.m.b.H. Sheet leveler. 3,312,094, 4–4–67, Cl. 72—162.

Birlea, Nicolae: *See*—
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Birman, Paul S., to Forbro Design Corp. Temperature control chamber utilizing operational power supplies. 3,329,202, 7–4–67, Cl. 165—26.

Birmann, Rudolph. Turbocompressor system. 3,355,878, 12–5–67, Cl. 60—13.

Birmans, Josef, to Adoph Sauerer, Ltd. Suction device for drop box loom having weft replenishment means. 3,347,285, 10–17–67, Cl. 139—257.

Birmans, Josef, and A. Wirz, to Adolph Saurer Ltd. Suction system for tensioning weft. 3,299,912, 1–24–67, Cl. 139—194.

Birmingham, Donald J.: *See*—
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Birmingham, Donald J., W. C. Hill, R. A. Mackenzie, Jr., and B. J. Pine, to General Electric Co. Data communication processor. 3,311,889, 3–28–67, Cl. 340—172.5.

Birmingham, Henry P., to United States of America, Navy. Vehicle laterally compounded optical guidance system. 3,320,584, 5–16–67, Cl. 340—26.

Birmingham, Henry P., to United States of America, Navy. Collimated aircraft landing assist system. 3,355,941, 12–5–67, Cl. 73—178.

Birmingham, Henry P., A. W. Baldwin, and B. L. Perry, to United States of America, Navy. Optical guidance system for providing vehicle motion error information. 3,353,153, 11–14–67, Cl. 340—26.

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Scott, Harold R. 3,296,392.
Scott, Harold R., Davis, and Fogaty. 3,300,598.

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Biron, Raphael A., The Dow Chemical Co. Herbicide dispenser. 3,320,694, 5–23–67, Cl. 47—1.5.

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Birrell, Stewart H., and R. M. Fey, to Owens-Illinois, Inc. Collapsible container. 3,354,924, 11–28–67, Cl. 150—.5.

Birrenkott, Louis A. Burglar alarm. 3,327,300, 6–20–67, Cl. 340—283.

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Birum, Gail H., to Monsanto Co. Halogenated mono-phosphorus alpha-hydroxy hydrocarbylphosphonate esters and their preparation. 3,342,908, 9–19–67, Cl. 260—953.

Birum, Gail H., R. B. Clampitt, and R. M. Anderson, to Monsanto Co. Flame-resistant polyurethanes. 3,332,893, 7–25–67, Cl. 260—2.5.

Birum, Gail H., J. L. Schwendeman, and R. M. Anderson, to Monsanto Co. Polymeric compositions containing bis(2-bromoethyl)-2-chloroethyl phosphate. 3,344,112, 9–26–67, Cl. 260—45.7.

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Birum, Herbert L., Jr., to HLB Corp. Ceiling channel assembly for movable partitions. 3,358,411, 12–19–67, Cl. 52—241.

Birum, Herbert L., Jr. Sealing means for exterior panel wall structures. 3,359,700, 12–26–67, Cl. 52—628.

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Bisang, Adolf, to Maschinenfabrik Benninger A.G. Apparatus for squeezing out liquids from web-shaped textile materials. 3,332,260, 7–25–67, Cl. 68—22.

Bischof, Hans, and K. G. Hersperger. Packaging. 3,352,086, 11–14–67, Cl. 53—39.

Bischoff, Elton L., to United States of America, Air Force. Exploding missile case. 3,357,356, 12–12–67, Cl. 102—49.5.

Bischoff, Friedrich, to Siemens & Halski Aktiengesellschaft. Apparatus for vapor deposition of silicon. 3,335,697, 8–15–67, Cl. 118—49.5.

Biser, Roger W., to Ledex, Inc. Rotary actuator having associated clutch means. 3,308,410, 3–7–67, Cl. 335—228.

Bish, Robert M., and J. W. Davis, said Davis assor. to said Bish. Carrying board. 3,295,734, 1–3–67, Cl. 224—48.

Bish, William E., and W. M. Hill, to The L. McBrine Co. Ltd. Method of manufacturing luggage. 3,332,136, 7–25–67, Cl. 29—413.

Biship, Thomas D., to The Deritend Engineering Co. Ltd. Oldham couplings. 3,316,738, 5–2–67, Cl. 64—31.

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Bishofberger, Carl J., to Honeywell Inc. Contact structure. 3,304,467, 2–14–67, Cl. 317—15.

Bishop and Babcock Corp., The: *See*—
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Munse, Robert A. 3,304,686.
Munse, Robert A. 3,357,064.
Munse, Robert A. 3,358,729.

Bishop, Bernard F.: *See*—
Attwood, John G., and Bishop. 3,343,510.

Bishop, Charles R., deceased, by M. J. Bishop, executrix. Drive arrangement for vehicles with an articulated frame. 3,338,327, 8–29–67, Cl. 180—71.

Bishop, Clarence E., and P. H. Young, to Celanese Corp. of America. Spinneret for making hollow filaments. 3,340,571, 9–12–67, Cl. 18—8.

Bishop, Earl L., to The Akron Standard Mold Co. Tire building drum. 3,322,599, 5–30–67, Cl. 156—417.

Bishop, Forest M., R. I. Bishop, Jr., and W. L. Howard. Golf swing aid. 3,350,101, 10–31–67, Cl. 273—186.

Bishop, Frederic L., to Owens-Illinois, Inc. Cathode-ray tube having an improved fiber optic face plate. 3,343,023, 9–19–67, Cl. 313—92.

Bishop, Frederic L., to Owens-Illinois, Inc. Radiation indicating glass. 3,359,125, 12–19–67, Cl. 106—54.

Bishop Freeman Co.: *See*—
Anderson, Arvid B., Davis, and Schultz. 3,321,852.
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Bishop, George F. L., to Phillips Petroluem Co. Reservoir for storage of volatile liquids and method of forming the same. 3,295,328, 1–3–67, Cl. 61—.5.

Bishop, George F. L., to Phillips Petroleum Co. Earthen reservoir with frozen roof covering and method of forming the same. 3,359,739, 12–26–67, Cl. 61—.5.

Bishop, Harold B., to Phillips Petroleum Co. Liquid disposal. 3,333,638, 8–1–67, Cl. 166—42.

Bishop, Irving N., L. Hideg, and A. O. Simko, to Ford Motor Co. Internal combustion engine combustion process. 3,315,650, 4–25–67, Cl. 123—32.

Bishop, J., & Co.: *See*—
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Bishop, Jack L., Jr., and C. W. Todd, to Dow Corning Corp. Shaving cream containing polysiloxanes. 3,298,919, 1–17–67, Cl. 167—85.

Bishop, Jacob M., and D. D. Westbrook, to Ametek, Inc. Method and apparatus for making two-coil noncumulative force spiral springs, and more particularly two-coil noncumulative force spiral springs having a saddle between the coils. 3,329,177, 7–4–67, Cl. 140—89.

Bishop, James S., and A. D. Coggeshall, to General Electric Co. Winding support system for a dynamoelectric machine. 3,344,297, 9–26–67, Cl. 310—260.

Bishop, Jerald W.: *See*—
Gilmore, Merwin W., and Bishop. 3,353,479.

Bishop, John D., to Bell Telephone Laboratories, Inc. Circuit for monitoring the state of a relay. 3,346,855, 10–10–67, Cl. 340—248.

Bishop, Leonard J.: *See*—
Klamp, Paul, and Bishop. 3,348,496.

Bishop, Muriel J.: *See*—
Bishop, Charles R. and M. J. 3,338,327.

Bishop, Richard M. Deer dragging harness kit. 3,346,154, 10–10–67, Cl. 224—5.

Bishop, Robert B., Inc.: *See*—
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Bishop, Robert E. C., to Admel International Ltd. Photocopying machines. 3,329,076, 7–4–67, Cl. 95—77.5.

Bishop, Robert E., K. R. Jackson, G. Kis, and F. W. Schlesinger, to United States of America, National Aeronautics and Space Administration. Optical alignment system. 3,323,408, 6–6–67, Cl. 88—14.

Bishop, Robert G., to Hercules Inc. Preparation of hydroxypropyl cellulose. 3,351,583, 11–7–67, Cl. 260—231.

Bishop, Robert H. Unit enclosures. 3,318,647, 5–9–67, Cl. 312—257.

Bishop, Roger I., E. R. Kendall, and R. A. Palmer, deceased (by D. Palmer, executrix), to S. Smith & Sons (England) Ltd. Aircraft instruments. 3,309,923, 3–21–67, Cl. 73—178.

Bishop, Roy I., Jr.: *See*—
Bishop, Forest M., R. I. Bishop, Jr., and Howard. 3,350,101.

Bishop, Thomas D., to The Deritend Engineering Co. Ltd. Apparatus for treating blanks or webs of material. 3,299,801, 1–24–67, Cl. 100—168.

Bishop, Thomas D., to The Deritend Engineering Co. Ltd. Method of making an accurate form for cutting and creasing sheet material. 3,302,490, 2–7–67, Cl. 76—107.

Bishop, Thomas D., to The Deritend Engineering Co. Ltd. Apparatus for use in the manufacture of boxes and the like. 3,314,340, 4–18–67, Cl. 93—58.2.

Bishop, Thomas M., ½ to E. L. Gammage, Jr., and T. L. Mullen. Wheel stabilizer. 3,333,863, 8–1–67, Cl. 280—94.

Bishop, Walter F., to Bell & Howell Co. Sheet feed trays. 3,319,956, 5–16–67, Cl. 271—60.

Bishop, William P. Bale stack forming device. 3,330,426, 7–11–67, Cl. 214—6.

Bisignani, Alfred G., and R. H. Edgecomb, to Allied Chemical Corp. Production of sulfuryl fluoride. 3,320,030, 5–16–67, Cl. 23—203.

Bisjak, Jacques, and J.-P. Gourber, to CSF-Compagnie Generale de Telegraphie Sans Fil. Monochromatic light source with temperature regulating means. 3,323,010, 5–30–67, Cl. 315—115.

Biskeborn, Merle C., to Bell Telephone Laboratories Inc. Wire heater. 3,328,554, 6–27–67, Cl. 219—10.61.

Biskis, Edward G., to Air Products and Chemicals, Inc. Regenerative adsorption process. 3,352,121, 11–14–67, Cl. 62—18.

Biskup, John, N. R. Migdol, and E. C. Scholl, to Congoleum-Nairn Inc. Waste sulphite liquor adhesive composition. 3,352,700, 11–14–67, Cl. 106—123.

Bisschops, Johan H., and A. J. Conix, to Gevaert Photo-Producten N.V. Method of manufacturing recording tape with improved cross-linked binder for the recording layer. 3,357,855, 12–12–67, Cl. 117—138.8.

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Bissot, Thomas C., to E. I. du Pont de Nemours and Co. Process for preparing aqueous dispersions of ethylene copolymers. 3,347,811, 10–17–67, Cl. 260—29.6.

Bissot, Thomas C., to E. I. du Pont de Nemours and Co. Preparation of stable film forming aqueous polyamide dispersions. 3,355,409, 11–28–67, Cl. 260—29.6.

Bissot, Thomas C., and H. B. Copelin, to E. I. du Pont de Nemours and Co. Production of 4-halobutene-1. 3,312,747, 4–4–67, Cl. 260—654.

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Bittner, Clarence W., to Shell Oil Co. Iodinative hydrocarbon conversion. 3,331,883, 7–18–67, Cl. 260—680.

Bittner, Ernst. Transparent small commodity pack for mounting on a supporting frame for display purposes. 3,307,693, 3–7–67, Cl. 206—78.

Bittner, Hans J., and L. Jacobs, to H. Putsch & Co. Glass pressing machine. 3,337,325, 8–22–67, Cl. 65—314.

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Bitzer, Albert H., Jr. Method and apparatus for simultaneously cold forming and stress relieving metal coils. 3,323,340, 6–6–67, Cl. 72—135.

Bitzer, Edmund C., to Nordberg Mfg. Co. Chain catenary belt idler. 3,295,665, 1–3–67, Cl. 198—192.

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Bjorn, Thomas E., to Stewart-Warner Corp. Vibration detection gauge. 3,321,960, 5–30–67, Cl. 73—71.4.

Bjorn, Thomas E., and N. H. Kadivnik, to Stewart-Warner Corp. Automatic unbalance location and balance apparatus. 3,302,491, 2–7–67, Cl. 77—5.

Bjorndal, Oystein. Hydraulic pump. 3,299,825, 1–24–67, Cl. 103—126.

Bjorn-Henriksen, Preben, and P. C. Hansen. Apparatus for injecting brine into meat products. 3,296,953, 1–10–67, Cl. 99—256.

Bjornsen, Bjorn G., to Johnson Service Co. Fluid stream control apparatus. 3,334,641, 8–8–67, Cl. 137—81.5.

Bjornson, Geir, and E. L. Czenkusch, to Phillips Petroleum Co. Isoprene polymerization. 3,337,520, 8–22–67, Cl. 260—94.3.

Björshol, Kolbjörn. Winch for hauling purse seines or similar fishing gear. 3,305,218, 2–21–67, Cl. 254—137.

Blaauw, Gertit A., and S. W. Dunwell, to International Business Machines Corp. Simplified partial double error correction using single error correcting code. 3,328,759, 6–27–67, Cl. 340—146.1.

Blaauw, Gerrit A., W. V. Wright, and R. H. Larson, to International Business Machines Corp. Priority sequence control. 3,328,771, 6–27–67, Cl. 340—172.5.

Blachere, Albert M. E., and C. J. M. Breant, to Rhone-Poulenc S.A. Stabilized polyolefins containing dilauryl thiodipropionate and hydroxyaryloxamic acid esters. 3,318,842, 5–9–67, Cl. 260—45.85.

Blachier, Bruno, and C. Vergnolle, to CSF-Compagnie Generale de Telegraphie Sans Fil. Antenna array having an electrically controllable directivity pattern. 3,319,249, 5–9–67, Cl. 343—100.

Blachier, Bruno, and N'G. Van Tran, to CSF-Compagnie Generale de Telegraphie San Fil. Waveguide switching structure having at least one bulb filled with a low pressure gas. 3,324,420, 6–6–67, Cl. 333—7.

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Black, Dolphus H., to United States of America, National Aeronautics and Space Administration. Storage container mounting for space vehicles. 3,295,791, 1–3–67, Cl. 244—1.

Black, Donald M., to Rexall Drug and Chemical Co. Extrusion apparatus. 3,308,507, 3–14–67, Cl. 18—12.

Black, Ernest F., J. B. Cleliand, and S. W. Ferris, deceased (by L. G. Ferris, executrix), to Sun Oil Co. Asphaltene treating process. 3,317,447, 5–2–67, Cl. 260—28.5.

Black, Garnett V. Packboard with a folding stool. 3,315,856, 4–25–67, Cl. 224—9.

Black, James A. Stencil screen frame. 3,359,663, 12–26–67, Cl. 38—102.91.

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Black, James H., to The American Tobacco Co. Photoelectric scanner with synchronized cutter and photocell offset from light source. 3,334,240, 8–1–67, Cl. 250—223.

Black, James J., to Pullman, Inc. Selective valve actuating mechanism for vessels. 3,310,070, 3–21–67, Cl. 137—637.1.

Black, James R., and F. L. Blake, deceased (by B. A. Dickson, administratrix), to Motorola, Inc. Vapor deposition process. 3,330,694, 7–11–67, Cl. 117—201.

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Black, John O. Stackable bed. 3,325,830, 6–20–67, Cl. 5—8.

Black, John W., Jr. Device for flattening cans. 3,299,802, 1–24–67, Cl. 100—233.

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Lau, Erwin M. 3,301,281.
Lau, Erwin M. 3,301,340.
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Black, Raymond J.: *See*—
Anderson, Bruce W., and Black. 3,357,519.

Black, Raymond J., and R. M. Palmer, to The Bendix Corp. Aircraft landing gear. 3,345,019, 10–3–67, Cl. 244—100.

Black, Richard A., to Bell Fibre Products Corp. Carton construction. 3,317,111, 5–2–67, Cl. 229—15.

Black, Richard W., to United States of America, Army. Cargo centering device. 3,341,035, 9–12–67, Cl. 214—15.

Black, Robert B. Fluid pressure device for ejecting burs from the chucks of dental handpieces. 3,333,320, 8–1–67, Cl. 29—252.

Black, Robert C.: *See*—
Foster, Walter E., and Black. 3,349,445.

Black, Robert D., to P. R. Mallory & Co., Inc. Capacitor with solid oxide electrolyte pyrolytically produced in wet atmosphere. 3,302,074, 1–31–67, Cl. 317—230.

Black, Robert L.: *See*—
Bailey, Keith A., Black, and Fisher. 3,313,183.

Black, Robert L., Jr., to Parks-Cramer Co. Unitary blowing and suction traveling cleaner for textile mills. 3,304,571, 2–21–67, Cl. 15—312.

Black, Robert L., Jr., to Parks-Cramer Co. Traveling textile cleaner with forced air filter cleaning means. 3,320,726, 5–23–67, Cl. 55—294.

Black, Sheppard A., and J. D. Heide, to United States Rubber Co. Intermediate article. 3,297,073, 1–10–67, Cl. 152—362.

Black, Sheppard A., J. D. Heide, and T. J. Rhodes, to United States Rubber Co. Tire carcass building. 3,306,804, 2–28–67, Cl. 156—417.

Black, Sheppard A., J. D. Heide, and T. J. Rhodes, to United States Rubber Co. Method of making a tire carcass. 3,318,745, 5–9–67, Cl. 156—111.

Black, Sheppard A., and J. D. Heide, to Uniroyal, Inc. Tire carcass remover. 3,322,595, 5–30–67, Cl. 156—351.

Black, Sheppard A., and J. D. Heide, to Uniroyal, Inc. Bead-setting apparatus in tire carcass fabricating machine. 3,323,968, 6–6–67, Cl. 156—350.

Black, Sheppard A., J. D. Heide, and T. J. Rhodes, to Uniroyal, Inc. Automatic tire carcass building apparatus. 3,323,970, 6–6–67, Cl. 156—396.

Black, Sheppard A., and J. D. Heide, to Uniroyal, Inc. Automatic apparatus for sensing and laterally centering tire fabric feed of varying width. 2,325,072, 6–13–67, Cl. 226—20.

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Black, William B., to Monsanto Co. Preparation of stereoregular polyvinyl alcohol shaped articles. 3,329,754, 7–4–67, Cl. 264—184.

Black, William C., and V. L. Winfrey, to Penick & Ford, Ltd. Cationic starch complex. 3,320,118, 5–16–67, Cl. 162—175.

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Blackaby, Benjamin E., to Hawker Siddeley Dynamics Ltd. Fuel control system for gas turbine engines. 3,295,317, 1–3–67, Cl. 60—39.28.

Blackburn, Alan B., to Hobart Bros. Co. Alternating current arc welding system with a high frequency voltage superposed thereon. 3,311,780, 3–28–67, Cl. 315—163.

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Blackburn, Keith, and D. L. Spanjer, to Hawker Siddeley Canada, Ltd. Pallet transporter. 3,330,432, 7–11–67, Cl. 214—505.

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Blackburn, Robert R. Spot welding gun. 3,303,317, 2–7–67, Cl. 219—90.

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Blackburn, Walter L. Ratchet winch. 3,302,931, 2–7–67, Cl. 254—186.

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Blackett, James C., W. B. Hamelink, L. L. Krueger, and W. L. Livingston, to Honeywell Inc. Control system. 3,357,473, 12–12–67, Cl. 158—28.

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Blackley, William D., to Texaco Inc. Method of preparing nitrosohydrocarbon dimers. 3,340,314, 9–5–67, Cl. 260—647.

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Blackman, Sanford L., to The Bendix Corp. Three terminal bridged T network for monitoring the operating speed of a motor. 3,334,342, 8–1–67, Cl. 340—263.
Blackman, Seymour N. Method of marking mercury glass thermometers. 3,316,076, 4–25–67, Cl. 65—30.
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Blackshear, Perry L., Jr., and F. D. Dorman, to The Regents of the University of Minnesota. Heat sensing probe and process. 3,296,865, 1–10–67, Cl. 73—359.
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Ley, Ralph G. 3,353,522.
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Blackwell, Robert J., F. A. Morgan III, and J. K. Hellhecker, to Esso Production Research Co. Miscible displacement process using modified alcohol banks. 3,334,688, 8–8–67, Cl. 166—9.
Blackwell, Roscoe W. Hygienic apparatus. 3,359,572, 12–26–67, Cl. 4—1.
Blackwell, Roy N., Jr. Hose coupling device. 3,300,235, 1–24–67, Cl. 285—33.
Blackwood, Henson U. Foldable surveying instrument. 3,313,027, 4–11–67, Cl. 33—105.
Blade, Arturo, to Roussel-UCLAF. Process for the preparation of 9α-fluoro steroids and products obtained therefrom. 3,359,289, 12–19–67, Cl. 260—397.45.
Blade, Arturo, and G. Muller, to Roussel-UCLAF. Colchicineamide compounds and process of preparation. 3,310,579, 3–21–67 Cl. 260—465.
Blade, Arturo, and G. Muller, to Roussel-UCLAF. Colchicinic derivatives and process of preparation. 3,310,580, 3–21–67, Cl. 260—465.
Bladel, Bendt O. D., to Swift & Co. Culturing anaerobic bacteria. 3,338,794, 8–29–67. Cl. 195—126.
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Blaga, Aurel, and M. J. Skrypa, to Allied Chemical Corp. Chlorinated wax, vinyl chloride/vinyl acetate blend coated with limestone or talc and process for preparing it. 3,351,601, 11–7–67, Cl. 260—28.5.
Blagden, Arthur B., and G. E. Adams, to Dunlop Rubber Co. Ltd. Sealing flap for pneumatic tires. 3,335,778, 8–15–67, Cl. 152—366.
Blagg, Leon, to Schlumberger Technology Corp. Method and apparatus for lining wells. 3,358,760, 12–19–67, Cl. 166—14.
Blaha, Emil, to Selas Corp. of America. Process for making a filter. 3,353,982, 11–21–67, Cl. 117—8.
Blaikie, Ernest R., to Lear Siegler, Inc. Mounting chassis for electrical components. 3,356,902, 12–5–67, Cl. 317—100.
Blain, Thomas M., and B. J. Whitted, to Fotorite, Inc. Apparatus and method for altering the contrast characteristic of photosensitive materials. 3,332,332, 7–25–67, Cl. 95—73.
Blair, Calvin B. Baler drawn bale accumulator and stacker. 3,302,807, 2–7–67, Cl. 214—42.
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Blair, Noel D., and C. T. Bean, Jr., to Hooker Chemical Corp. Fire retardant bituminous compositions. 3,347,685, 10–17–67, Cl. 106—15.
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Blair, Richard R., and C. A. Padgitt, to Borg-Warner Corp. Treatment of resin coagulate with rubber latex to remove resinous fines. 3,297,600, 1–10–67, Cl. 260—4.
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Blake, Frederick H. Motor speed control for supply system. 3,334,285, 8–1–67, Cl. 318—331.
Blake, Frederick H., to M. J. and A. M. Sobyro. Timing circuitry. 3,349,334, 10–24–67, Cl. 328—71.
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Blake, Jack W., to F. L. Jacobs Co. Ash receptacle for automobiles. 3,355,232, 11–28–67, Cl. 312—242.
Blake, James A., and J. C. Boyd, to International Business Machines Corp. System for measuring a characteristic of an electrical pulse. 3,312,894, 4–4–67, Cl. 324—68.
Blake, James E., and R. Z. Zaputowycz, to General Electric Co. System for locking an oscillator to a reference frequency having a particular shaped waveform to facilitate synchronization. 3,336,440, 8–15–67, Cl. 178—69.5.
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Blakeslee, William W., P. J. Grunfelder, E. K. Nadolny, L. L. Sevebeck, and R. E. Vogell, to Western Electric Co., Inc. Magnetic repertory caller. 3,301,958, 1–31–67, Cl. 179—6.
Blakeway, John M., and P. Marshall, to Colgate-Palmolive Co. Sulphonation of organic compounds. 3,346,505, 10–10–67, Cl. 252—161.
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Blakley, Walter W., and R. B. Smith, Eastman Kodak Co. Selecting device for film strips. 3,341,957, 9–19–67, Cl. 40—79.
Blanc, Robert, to Centre National de la Recherche Scientifique. Device for measuring the transconductance and output conductance of a transistor. 3,312,899, 4–4–67, Cl. 324—158.
Blance, Robert B., and S. M. Cohen, to Monsanto Co. Interpolymers of N-vinylacetamides with maleic anhydride. 3,317,485, 5–2–67. Cl. 260—78.5.
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Blanchard, Elwood P., Jr., to E. I. du Pont de Nemours, and Co. 1-cyano-4-hydrocarbylbicyclo[2.1.1]hexanes and process of preparation. 3,340,290, 9–5–67, Cl. 260—464.
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Blanchard, Pierre, J. Lehmann, and A. Virot, to Commissariat a l'Energie Atomique. Uranium-molybdenum containing small amounts of other metals. 3,306,733, 2–28–67, Cl. 75—122.7.
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Pirrie, Norman D., and Bland. 3,301,600.
Blander, Milton, and W. V. Johnston, to North American Aviation, Inc. Leak detection apparatus. 3,321,957, 5–30–67, Cl. 73—40.5.
Blandin, John F. Lithography accessory. 3,310,355, 3–21–67, Cl. 312—281.
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Blank, Edward, to Tobe Deutschmann Laboratories, Inc. Electrical energy storage apparatus. 3,308,358, 3–7–67, Cl. 317—256.
Blank, Edward, to Tobe Deutschmann Laboratories. Capacitative high voltage pulse generating apparatus. 3,322,976, 5–30–67, Cl. 307—109.
Blank, Edward, to Tobe Deutschmann Laboratories, Inc. Low inductance capacitor. 3,343,051, 9–19–67, Cl. 317—260.
Blank, Edward, to Tobe Deutschmann Laboratories. Low inductance high voltage capacitor. 3,346,790, 10–10–67, Cl. 317—261.
Blank, Hans G., to General Telephone and Electronics Laboratories, Inc. Electroluminescent bar graph indicator. 3,327,163, 6–20–67, Cl. 315—169.
Blank, Henry P.: *See*—
Christensen, Gordon L., and Blank. 3,307,319.
Blank, Robert H.: *See*—
Sax, Karl J., Blank, Holmlund, and Evans. 3,329,579.
Blank, Stephen J., and L. H. Sacks. Radar target for circularly polarized radiation. 3,309,705, 3–14–67, Cl. 343—18.
Blank, Stewart M. Energy absorbing vehicle bumper assembly. 3,307,868, 3–7–67, Cl. 293—70.
Blank, William. Steam pressing iron. 3,299,549, 1–24–67, Cl. 38—77.
Blank, Winfield B., Jr., to Sinclair Research, Inc. Electrical contact device having a spring acting against a plate for moving a plurality of contact elements. 3,324,389, 6–6–67, Cl. 324—62.
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Blankenship, Charles P., and C. A. Gyorgak, to United States of America, National Aeronautics and Space Administration. Protective device for machine and metalworking tools. 3,342,055, 9–19–67, Cl. 72—253.
Blankenship, Ernest B. Waterless urinal. 3,297,858, 1–10–67, Cl. 219—519.
Blankenship, Ernest B. Incinerator toilet. 3,331,338, 7–18–67, Cl. 110—9.
Blankenship, Milton J., to The Dow Chemical Co. Stabilized methyl chloroform compositions. 3,328,474, 6–27–67, Cl. 260—652.5.
Blankers, Zeger H., to United States of America, Navy. Step capacitance wave profile recorder. 3,314,287, 4–18–67, Cl. 73—170.
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Stegner, Harvey L. 3,301,110.
Blanks, John P. Sun dial. 3,303,567, 2–14–67, Cl. 33—62.

Blanks, Ronald F., and D. R. Blaskett, to The Broken Hill Associated Smelters Proprietary Ltd. Method for the treatment of zinciferous metallurgical slags and apparatus therefor. 3,300,300, 1–24–67, Cl. 75—77.
Blanshine, Allison W., to Sperry Rand Corp. Conveyor. 3,306,433, 2–28–67, Cl. 198—213.
Blanshine, Allison W., and C. M. Kline, Sperry Rand Corp. Corn processing machine elevator unit structure. 3,342,308, 9–19–67, Cl. 198—69.
Blanshine, Allison W., and W. W. Mann, to Sperry Rand Corp. Crop drying shed. 3,343,276, 9–26–67, Cl. 34—216.
Blanton, Colecta E., Jr. Spinning top slidable off a rod. 3,328,909, 7–4–67, Cl. 46—68.
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Brown, Marion Lipscomb, Jr., Green, and Blanton. 3,317,276.
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Blanton, Roscoe J., to Gold Digger Bit. Co. Drill bit assembly having detachable blades. 3,339,648, 9–5–67, Cl. 175—412.
Blanz, Edward G., to Americraft Mfg. Co. Adjustable gate for bar stock. 3,306,472, 2–28–67, Cl. 214—1.
Blanzy, Eugene J., to Lincoln Brass Works. Pilot flash tube ignition system. 3,298,420, 1–17–67, Cl. 158—115.
Blasbalg, Herman L., to International Business Machines Corp. Transversal filter having a tapped and an untapped delay line of equal delay, concatenated to effectively provide sub-divided delays along both lines. 3,297,951, 1–10–67, Cl. 328—37.
Blaschek, Otto, and E. Kastner. Low-noise motion picture camera. 3,331,653, 7–18–67, Cl. 352—35.
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Blaschke, Franz, to Chemische Werke Witten GmbH. Polyester plasticizer for polymers of vinyl chloride and process for preparing the same. 3,331,803, 7–18–67, Cl. 260—31.6.
Blase, Helmut, to Rheinstahl Union Bruckenbau A.G. Control arrangement. 3,300,190, 1–24–67, Cl. 254—187.
Blasehke, Franz, to Chemische Werke Witten G.m.b.H. Process for providing electrically insulated conductors and coating composition for same. 3,296,335, 1–3–67, Cl. 260—860.
Blasen, Richard M. Cargo handling machine. 3,341,034, 9–12–67, Cl. 214—14.
Blaser, Bruno, H.-G. Germscheid, and K.-H. Worms, to Henkel & Cie., G.m.b.H. Aminophosphonic acids and their derivatives as complex formers for metal ions. 3,303,139, 2–7–67, Cl. 252—180.
Blaser, Hans. Ignition distributor contact-breaker for an internal combustion engine. 3,331,928, 7–18–67, Cl. 200—19.
Blaser, Karl E., and G. Dommann, to Gewerkschaft Eisenhutte Westfalia, Wethmgr bei Lunen. Movable mining support. 3,295,331, 1–3–67, Cl. 61—45.
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Blaskowski, Henry J., to Combustion Engineering, Inc. Desalination and power generating system. 3,352,107, 11–14–67, Cl. 60—64.
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Blass, Judd, to Blass Antenna Electronics Corp. Parallel feed antenna system with phase shift switching. 3,316,553, 4–25–67, Cl. 343—854.
Blaszkowski, Henry. Retractable seat belt and method of making same. 3,307,873, 3–7–67, Cl. 297—388.
Blaszkowski, Henry. Process of hardening metal surfaces. 3,360,630, 12–26–67, Cl. 219—76.
Blatherwick, Delbert T., to American Photocopy Equipment Co. Clamping and sequencing arrangement for vacuum printing frame. 3,357,335, 12–12–67, Cl. 95—76.
Blatnik, George A., to Caine Steel Co. of California. Post with self-locking connector retention means. 3,332,189, 7–25–67, Cl. 52—364.
Blatt, Leland F. Material handling equipment. 3,349,927, 10.31.67, Cl. 214—1.
Blatt, Rudolph W., and C. F. Froberger, to General Motors Corp. Electrical discharge machining dielectric coolant. 3,346,713, 10–10–67, Cl. 219—69.
Blatter, Charles E., to Swissboring Schweizerische Tiefbohr-U. Bodenforschung A.G. Method and apparatus for securing anchorage in loose and compact ground. 3,359,742, 12–26–67, Cl. 61—53.58.
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Blatter, Herbert M., to Ciba Corp. 4-Amino-pyrimidines. 3,340,260, 9–5–67, Cl. 260—247.1.
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Blattner, Ernest W., to DeLaval Turbine Inc. Erosion indicator. 3,342,064, 9–19–67, Cl. 73—86.
Blattner, Frederick R. Animation technique. 3,350,158, 10–31–67, Cl. 352—50.
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Blau, Karl-Ludwig, A. Herr, J. Lintner, and O. Wilhelm, to Vinyal S.A. Vinyl chloride polymers containing fatty acid and fatty acid salts. 3,321,425, 5–23–67, Cl. 260—23.
Blau, Robert, B. Sedlak, and R. M. Phillips, to Loral Electronics Corp. Yttrium iron garnet preselectors. 3,299,376, 1–17–67, Cl. 333—24.2.
Blau, Theodore N. and E. J. Davis, to Johns-Manville Corp. High temperature thermal insulation. 3,346,016, 10–10–67, Cl. 138—138.
Blaudszun, Helmut, and H. Jacoby, to Borsig Aktiengesellschaft. Machine frame, especially for piston compressors and piston steam engines. 3,302,537, 2–7–67, Cl. 92—261.
Blaug, Seymour M., E. L. Grandon, W. M. Henderson, D. W. Lovett, T. W. Slattery, and F. D. Staab, to United States of America, Army. Biologically absorbable foam packing bandage and process therefor. 3,325,366, 6–13–67, Cl. 167—82.
Blavette, Roger, to Societe Anonyme Simca Automobiles. Transmission device for a motor vehicle. 3,327,556, 6–27–67, Cl. 74—701.
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Davin, Donald R. 3,316,821.
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Blayney, Allan B., to Ideal Venders (Division of Eddy Match Co., Ltd.). Release mechanism for slope shelf vender including a lock-out assembly. 3,305,129, 2–21–67, Cl. 221—125.
Blaze, Joseph E., Jr., to The Babcock & Wilcox Co. Process of manufacturing refractory fibers. 3,322,865, 5–30–67, Cl. 264—.5
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Blazek, Henry, to Sperry Rand Corp. Pneumatic attitude sensor. 3,311,987, 4–4–67, Cl. 33—204.
Blazek, Henry, and N.-C. Chang, to Sperry Rand Corp., Ford Instrument Co. Division. Attitude sensor. 3,321,979, 5–30–67, Cl. 74—5.
Blazek, Robert J., and I. Buck, Jr., to Westinghouse Electric Corp. Method for making an electroluminescent device. 3,313,652, 4–11–67, Cl. 117—215.
Blazey, Sidney H., to General Motors Corp. Method of and means for calibrating thermo-responsive power devices. 3,306,094, 2–28–67, Cl. 73—1.
Bleackley, William J., to Canadian Patents and Development Ltd. Polarization converter comprising metal rods mounted on a torsion wire that twists when rotated. 3,296,558, 1–3–67, Cl. 333—21.
Bleasby, Robert, to Foster Wheeler Corp. Self-aligning pressure sleeve. 3,353,848, 11–21–67, Cl. 285—19.
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Blechman, Abraham M. Magnetic orthodontic appliance. 3,353,271, 11–21–67, Cl. 32—14.
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Bleibtreu, Alexander, to Maschinenfabrik Reinhausen Gebruder Scheubeck KG. High current-carrying capacity switching devices requiring small contact pressures. 3,310,640, 3–21–67, Cl. 200—1.
Bleicher, Dan, to The General Electric Co. Series transistor voltage regulators with filter circuits. 3,328,674, 6–27–67, Cl. 323—22.
Bleicher, Robert L., to Dayton Perforators, Inc. Method of forming bushings. 3,298,085, 1–17–67, Cl. 29—149.5.
Bleickardt, Werner, to Hasler, A.G. Periodically self-triggering tunnel diode current discriminator. 3,349,253, 10–24–67, Cl. 307—88.5.
Bleickardt, Werner, to Hasler, A.G. An electronic counter for counting in the gray code binary pulses. 3,349,332, 10–24–67, Cl. 328—42.
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Bleiman, Lewis W., to Radio Corp. of America. Rotating random access card selection system. 3,343,149, 9–19–67, Cl. 340—174.1.
Bleiman, Lewis W., to Radio Corp. of America. Two card detector. 3,354,273, 11–21–67, Cl. 200—61.41.
Bleiman, Lewis W., J. B. Harrison, and E. H. Panczner, to Radio Corp. of America. Gripper bar. 3,302,968, 2–7–67, Cl. 294—87.
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Bleiweiss, Arthur F., G. Colombo, and J. B. Dickson, to Lehigh Valley Industries, Inc. Fixed load thermomotive flasher with normally engaged contacts. 3,350,527, 10–31–67, Cl. 200—122.
Bleiweiss, Arthur F., G. Colombo, and J. B. Dickson, to Lehigh Valley Industries, Inc. Flashers. 3,358,160, 12–12–67, Cl. 307—132.
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Blessing, Hubert, to W. F. Huck, d.b.a. Huck Co. Automatic controls for splicing rollstand. 3,326,486, 6–20–67, Cl. 242—58.3.
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Bletz, Howard W., to Therm-O-Disc, Inc. Thermal snap switch with operation on only one side of the over-center position. 3,322,921, 5–30–67, Cl. 200—138.
Bletz, Howard W., to Therm-O-Disc, Inc. Creep type thermostatic control having fine temperature adjustment. 3,358,101, 12–12–67, Cl. 200—139.
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Bleuer, Hans, to Willy Buehler A.G. Towing device. 3,358,612, 12–19–67, Cl. 104—173.
Bleuer, Keith T. Pen. 3,360,329, 12–26–67, Cl. 401—156.
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Blevins, George R., and G. W. Cowman, to The Black and Decker Mfg. Co. Electrical connection means for compact belt sander. 3,331,165, 7–18–67, Cl. 51—170.
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Bliss, Arthur D., and R. F. W. Ratz, to Olin Mathieson Chemical Corp. Bis-carbamoyl spirophosphonothioates. 3,355,523, 11–28–67, Cl. 260—927.
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Bliss, Robert W., to The Magnavox Co. Thermo-torque motor. 3,323,460, 6-6-67, Cl. 102—76.
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Bliss, Charles O. 3,351,378.
Blitz, Daniel, to Sanders Associates, Inc. FM altimeter with reduced step error. 3,340,529, 9-5-67, Cl. 343—14.
Blitz, Daniel, and R. Kincaid, to Sanders Associates, Inc. Sawtooth wave generator. 3,360,744, 12-26-67, Cl. 331—111.
Blitzer, Frank, H. D. Zuerndorfer, and C. P. Dewey, Jr., to Raytheon Co. Stellar directional acquisition system using photomultiplier tube. 3,320,423, 5-16-67, Cl. 250—203.
Blivice, Sidney L., ½ to D. J. Cohen. Automatic shoe size indicating apparatus. 3,328,882, 7-4-67, Cl. 33—3.
Blix, Weltzin B., Jr., and E. H. Krause, Jr. Tie bed scarifier. 3,349,717, 10-31-67, Cl. 104—9.
Blizard, John: *See*—
Daman, Ernest L., Vail, Blizard, and Phillips. 3,296,-779.
Bliznak, Bedrick V.: *See*—
Lattin, Leroy E., and Bliznak. 3,313,478.
Bloch, Alfred, to Ethicon, Inc. Tubing fluid containing an amino acid. 3,345,306, 10-3-67, Cl. 252—403.
Bloch, Elsie C. and G. Loop pile fabric. 3,332,453, 7-25-67, Cl. 139—391.
Bloch, Godfrey: *See*—
Bloch, Elsie C. and G. 3,332,453.
Bloch, Herman S.: *See*—
Pollitzer, Ernest L., Haensel, and Bloch. 3,318,821.
Bloch, Herman S., to Universal Oil Products Co. Electrolytic process for the continuous drying of moist fluids. 3,313,-718, 4-11-67, Cl. 204—131.
Bloch, Herman S., to Universal Oil Products Co. Preparation of non-conjugated diolefins. 3,320,326, 5-16-67, Cl. 260—666.
Bloch, Herman S., to Universal Oil Products Co. Desalinization of aqueous solutions. 3,351,549, 11-7-67, Cl. 210—24.
Bloch, Herman S., to Universal Oil Products Co. Hypodermic needle protector. 3,354,881, 11-28-67, Cl. 128—215.
Bloch, Herman S., to Universal Oil Products Co. Process for making biodegradable detergents. 3,355,484, 11-28-67, Cl. 260—505.
Bloch, Herman S., and R. C. Wackher, to Universal Oil Products Co. Selective solvent for unsaturated hydrocarbons. 3,313,723, 4-11-67, Cl. 208—325.
Bloch, Herman S., and W. G. Nixon, to Universal Oil Products Co. Transalkylation process and catalyst therefor. 3,324,-193, 6-6-67, Cl. 260—672.
Bloch, Herman S., and W. G. Nixon, to Universal Oil Products Co. Alkylation process and catalyst therefor. 3,336,410, 8-15-67, Cl. 260—671.
Bloch, Herman S., and F. J. Riedl, to Universal Oil Products Co. Catalytic dehydrogenation of paraffinic hydrocarbons mixed with trace H_2O. 3,360,586, 12-26-67, Cl. 260—683.3.
Bloch, Jack: *See*—
Leblanc, Conrad L., and Bloch, 3,333,708.
Leblanc, Conrad L., and Bloch. 3,333,709.
Leblanc, Conrad L., and Bloch. 3,357,568.
Bloch, Martin B., to United States of America, Navy. Crystal oscillator circuit using feedback control techniques. 3,321,-715, 5-23-67, Cl. 331—109.
Bloch, Odile: *See*—
Paget, Michel, and Bloch. 3,311,505.
Block, Bernard: *See*—
Leika, Walter. 3,302,833.
Block, Burton P.: *See*—
Ocone, Luke R., Block, and Meloni. 3,299,093.
Popoff, Ivan C., Block, and Huber. 3,332,987.
Block, Burton P., I. C. Popoff, J. P. King, and L. K. Huber, to Pennsalt Chemicals Corp. Phosphinylmethylphosphinic acids. 3,332,986, 7-25-67, Cl. 260—500.
Block, Charles, and L. J. Mintz. Dispensing apparatus. 3,339,-810, 9-5-67, Cl. 222—387.
Block, Dale G.: *See*—
Towle, Jack L., and Block. 3,320,315.
Block Engineering, Inc.: *See*—
Young, Niels O. 3,330,557.
Young, Niels O. 3,348,446.
Block, Erich, to Wienerwald-Geratebaw G.m.b.H. Grill for roasting meat. 3,326,118, 6-20-67, Cl. 99—420.
Block, Frank, to Dominion Bridge Co. Ltd. Protectors for heating surfaces of boiler tubes. 3,318,374, 5-9-67, Cl. 165—134.
Block, Fred B., and F. H. Clarke, Jr., to Geigy Chemical Corp. Certain 2,6-methano-3-benzazocines. 3,341,538, 9-12-67, Cl. 260—247.2.
Block, George P., to The Algonquin Corp. Hospital chart holder warning signal unit. 3,304,907, 2-21-67, Cl. 116—133.
Block, Murry L., and A. H. Mones, to International Business Machines Corp. Electrical conductor material and method of making same. 3,345,158, 10-3-67, Cl. 75—108.
Blocker, Leo R. Ground driven disc cultivator. 3,331,449, 7-18-67, Cl. 172—159.
Blodee, Leif, to Herman Miller, Inc. Pole structure for suspended furniture. 3,302,799, 2-7-67, Cl. 211—86.
Blodgett, Edwin O., to Friden, Inc. Tabulating card reader. 3,304,410, 2-14-67, Cl. 235—61.11.
Blodgett, Edwin O., to Friden, Inc. Punched-card reader. 3,304,411, 2-14-67, Cl. 235—61.11.
Blodgett, Edwin O., to Friden, Inc. Record medium feed structure. 3,327,917, 6-27-67, Cl. 226—141.
Blodgett, Edwin O., to Friden, Inc. Type bar actuating mechanism with separate drive and actuating bell cranks. 3,355,-000, 11-28-67, Cl. 197—17.
Blodgett, Robert B., to The Okomite Co. Power cables with an improved moisture barrier. 3,339,007, 8-29-67, Cl. 174—25.
Blodgett, Stewart E., to Mirapak Inc. Automatic feed control system. 3,342,225, 9-19-67, Cl. 141—1.
Bloem, Jan, and W. Steinmaier, to North American Philips Co., Inc. Method of manufacturing a semiconductor device by vapor-deposition. 3,331,716, 7-18-67, Cl. 148—174.
Blok, Dirk E., to Hunter Douglas International (Quebec) Ltd. Structural panel. 3,299,602, 1-24-67, Cl. 52—478.
Blok, Lourens, J. F. M. Van Dijk, and J. T. Kots, to North American Philips Co., Inc. Control system for regulating the current in a magnetron tube. 3,302,060, 1-31-67, Cl. 315—307.
Blom, Carl J., and F. G. Marrujo, to Borg-Warner Corp. Pressure staging mechanical seal. 3,360,272, 12-26-67, Cl. 277—3.
Blom, Kenneth M.: *See*—
Cooper, Merle D., Jr., and Blom. 3,358,408.
Blom, Leendert, and J. L. F. M. Zwinkels, to Stamicarbon N.V. Tar removal in phenol process. 3,349,134, 10-24-67, Cl. 260—621.
Blomberg, Richard N., to E. I. du Pont de Nemours and Co. Aluminum-containing molding powder and process for making. 3,311,464, 3-28-67, Cl. 75—5.
Blomberg, Richard N., to E. I. du Pont de Nemours and Co. Alumina titanate bonded magnesia. 3,316,108, 4-25-67, Cl. 106—62.
Blomdahl, Floyd A.: *See*—
Schlicke, Heinz M., Blomdahl, Barbieri, and Kocorowski. 3,329,911.
Blome, James C., E. M. Kern, and D. L. Kummer, to McDonnell Aircraft Corp. Thermal insulation and ablation material. 3,317,455, 5-2-67, Cl. 260—37.
Blomet, Jacques, and G. Coindreau. Machine for the extrusion of paste products. 3,327,346, 6-27-67, Cl. 18—12.
Blomeyer, Friedrich, W. Zecher, and H. Holtschmidt, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane forming compositions containing sulfurous acid esters as retarding agents. 3,352,829, 11-14-67, Cl. 260—77.5.
Blomfield, Rodney A., to Wyandotte Chemicals Corp. Compositions containing quaternary ammonium salts. 3,329,609, 7-4-67, Cl. 252—8.8.
Blomgren, Erik A., and S. J. Szpak, to Mobil Oil Corp. Method of operating a fuel cell utilizing ultrasonic mixing means removed from the fuel cell. 3,313,656, 4-11-67, Cl. 136—86.
Blommers, Elizabeth A.: *See*—
Bulbenko, George F., Gobran, and Blommers. 3,329,674.
Blomquist, Arthur G., L. Larsen, M. C. Neuman, and P. G. Wermager. Miniature interlock switch. 3,300,600, 1-24-67, Cl. 200—50.
Blomquist, Leif G.: *See*—
Abrams, John R., Blomquist, and Fine. 3,354,712.
Blomstran, Carl A., to Stockham Valves & Fittings, Inc. Valve actuating mechanism. 3,318,568, 5-9-67, Cl. 251—259.
Blonder, Isaac S., to Blonder Tongue Electronics. Apparatus for switching radio frequency energy through plural circuit connections to display device. 3,323,042, 5-30-67, Cl. 324—57.
Blonder, Isaac S. Apparatus for producing mechanical oscillations suitable for controlling sweep circuits and other devices. 3,329,909, 7-4-67, Cl. 331—178.
Blonder-Tongue Electronics: *See*—
Blonder, Isaac S. 3,323,042.
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Horowitz, Irving. 3,329,904.
Tongue, Ben H. 3,332,022.
Blonn, George W., Sr., to General Motors Corp. Apparatus for rolling drawings. 3,311,318, 3-28-67, Cl. 242—72.
Blonsky, Joseph E., to West Virginia Pulp and Paper Co. Log-skidding air pan. 3,339,656, 9-5-67, Cl .180—7.
Blonstein, Jacob L., and S. W. Sherman, to British Aircraft Corp. (Operating) Ltd. Spacecraft boom erection apparatus. 3,305,193, 2-21-67, Cl. 244—1.
Blood, Alden E.: *See*—
Hagemeyer, Hugh J. Jr., and Blood. 3,329,643.
Hagemeyer, Hugh J., Jr., Blood, and Edwards. 3,298,-979.
Hagemeyer, Hugh J., Jr., Blood, and Edwards. 3,356,659.
Hagemeyer, Hugh J., Jr., Blood, and Heller. 3,338,949.
Hagemeyer, Hugh J., Jr., Blood, and Statman. 3,332,984.

Blood, Ellis W.: *See*—
Rairden, John R., III, and Blood. 3,356,912.
Blood, Raymond: *See*—
Start, Ernest, and Blood. 3,320,773.
Blood, Walter R.: *See*—
Bulcraig, William R. and Blood. 3,311,700.
Bloom, Aaron, and J. D. Olt, to Sierra Engineering Co. Filter mask facelet. 3,315,674, 4-25-67, Cl. 128—146.4.
Bloom, Arnold L., and D. L. Mansir, to Varian Associates. Gyromagnetic resonance methods and apparatus. 3,360,716, 12-26-67, Cl. 324—5.
Bloom, Arnold L., and D. L. Mansir, to Varian Associates. Gyromagnetic resonance methods and apparatus. 3,360,717, 12-26-67, Cl. 324—5.
Bloom, Barry M., and J. F. Muren, to Chas. Pfizer & Co., Inc. Alkylated thioxanthenesulfonamides. 3,310,553, 3-21-67, Cl. 260—240.
Bloom, Benjamin: *See*—
Portnoff, Lawrence A., Bloom, and Hibbs. 3,329,109.
Bloom, Carl, to Worthington Corp. Unloading system for rotary compressor. 3,349,994, 10-31-67, Cl. 230—45.
Bloom, Earl M., Jr., and V. J. Faidley, to International Business Machines Corp. Printer control apparatus including code modification means. 3,343,131, 9-19-67, Cl. 340—172.5.
Bloom, Earl M., Jr., and V. J. Faidley, to International Business Machines Corp. Universal character set addressing in high speed printers. 3,349,695, 10-31-67, Cl. 101—93.
Bloom, Gerald, and B. Fishman, to Flo-Tron, Inc. Mass flowmeter. 3,338,097, 8-29-67, Cl. 73—205.
Bloom, Harry, and W. L. Jolly, to United States of America, Atomic Energy Commission. Silicon production process. 3,322,503, 5-30-67, Cl. 23—223.5.
Bloom, John C., J. V. Walker, and E. P. Walther, deceased; (by Jeannette D. Walther, widow), to Douglas Aircraft Co., Inc. Slipper and loading element fluid seal. 3,328,041, 6-27-67, Cl. 277—165.
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Samos, George, and Bloom. 3,330,889.
Bloom, Melvin S.: *See*—
Hedberg, David G., Bloom, and Otis. 3,322,680.
Bloom, Melvin S., and G. C. Newland, to Eastman Kodak Co. Ultraviolet light stabilized 1-olefin polymers containing a bis(arylidene)dithiooxamide or a 2,5-bisarylthiazolo-(5,4-*a*) thiazole or a nickel chelate thereof. 3,324,077, 6-6-67, Cl. 260—45.75.
Bloom, Merle W., R. A. Huston, and R. W. Condon, ½ to Geo. D. Roper Corp., and ½ to Dexter Automatic Products Co. Lubrication system for chain saws. 3,332,411, 7-25-67, Cl. 123—196.
Bloom, Meyer, 50% to R. J. Atti. Winding machine for golf balls. 3,356,303, 12-5-67, Cl. 242—3.
Bloom, Milton, and R. Blum. Adjustable rack shelving. 3,346,-126, 10-10-67, Cl. 211—176.
Bloom, Mortimer C., to United States of America, Navy. Method of operating high pressure steam generators. 3,356,-073, 12-5-67, Cl. 122—379.
Bloom, Philip A., and S. J. Hussey, to United States of America, Interior. Recovery of molybdenite from copper sulfide concentrates by froth flotation. 3,313,412, 4-11-67, Cl. 209—167.
Bloom, Stanley M., to Polaroid Corp. Photographic developing agents and uses thereof. 3,320,063, 5-16-67, Cl. 96—29.
Bloom, Stefan A., and M. Denholtz, to Dental Design Systems. Mixing capsule. 3,344,914, 10-3-67, Cl. 206—47.
Bloom, Stephen D., and R. M. Rickert, to Bell Telephone Laboratories, Inc. Switching converter power supply for constant current inputs. 3,302,092, 1-31-67, Cl. 321—2.
Bloom, Stephen D., and P. W. Ussery, to Bell Telephone Laboratories, Inc. High efficiency inverter with extended transistor saturation intervals. 3,350,661, 10-31-67, Cl. 331—113.
Bloomberg, Allan E. Lamp-support assembly. 3,346,734, 10-10-67, Cl. 240—53.
Bloomer-Fiske, Inc.: *See*—
Foldenauer, Ralph M. 3,316,829.
Bloomfield, Harold, and A. C. Purpura, to Bloomfield Industries, Inc. Automatic coffee brewer. 3,319,561, 5-16-67, Cl. 99—283.
Bloomfield, Harold, and A. C. Purpura, to Bloomfield Industries, Inc. Decanter with detachable spout. 3,330,449, 7-11-67, Cl. 222—475.
Bloomfield Industries, Inc.: *See*—
Bloomfield, Harold, and Purpura. 3,319,561.
Bloomfield, Harold, and Purpura. 3,330,449.
Bloomquist, Evert V. and Gerald E. Machine for cutting material into strips. 3,297,068, 1-10-67, Cl. 146—117.
Bloomquist, Gerald E.: *See*—
Bloomquist, Evert V. and Gerald E. 3,297,068.
Bloomquist, George W., to FMC Corp. Bearing assembly. 3,336,057, 8-15-67, Cl. 285—276.
Bloor, Robert R., and E. G. Kolycheck, to The B. F. Goodrich Co. Polyesterurethane elastomers having improved color characteristics. 3,298,995, 1-17-67, Cl. 260—45.85.
Blosser, Howard W. Walking heel for plaster casts. 3,307,-536, 3-7-67, Cl. 128—83.5.
Bloudoff, Peter S., to Armco Steel Corp. Sub-surface connector for plural tubing elements. 3,340,932, 9-12-67, Cl. 166—243.
Blough, Ronald S., to Fairfield Engineering and Mfg. Co. Automatic feed weighing and liquid distributing apparatus for livestock. 3,295,500, 1-3-67, Cl. 119—51.5.
Blouin, Glenn M., and D. W. Rindt, to Tennessee Valley Authority. Method of making sulfur-coated fertilizer pellet having a controlled dissolution rate. 3,295,950, 1-3-67, Cl. 71—64.
Blouin, Glenn M., and D. W. Rindt, to Tennessee Valley Authority. Sulfur-coated fertilizer pellet having controlled dissolution rate and inhibited against microbial decomposition. 3,342,577, 9-19-67, Cl. 71—3.
Blount, Floyd E.: *See*—
Allen, Wallace B., Blount, and Metler. 3,327,214.
Blount, Floyd E., and A. V. Metler, to Mobil Oil Corp. Joint for liner-carrying well pipe. 3,307,860, 3-7-67, Cl. 285—55.
Blount, Floyd E., and A. V. Metler, to Mobil Oil Corp. Liner-carrying well pipe and joint. 3,336,054, 8-15-67, Cl. 285—55.
Blount, George H., and S. H. Marx, to Philco Ford Corp. Attitude stabilizing means. 3,358,945, 12-19-67, Cl. 244—1.
Blount, Luther H. Control for trawler winches. 3,300,189, 1-24-67, Cl. 254—185.
Blout, Elkan R., S. G. Cohen, and M. Green, to Polaroid Corp. Novel photographic products and processes. 3,295,973, 1-3-67, Cl. 96—29.
Blout, Elkan R., and M. Simon, to Polaroid Corp. α-[β′,β′-bis (dihydroxyphenyl)-diethyl-amino]-anthroquinones. 3,337,-589, 8-22-67, Cl. 260—378.
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Miller, Leon F., and Blower. 3,356,132.
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Bloxsom, Dan E. Fireproof skylight assembly. 3,307,303, 3-7-67, Cl. 52—80.
Bloxsom, Dan E. Snap lock construction for locking domes in skylight frames. 3,307,309, 3-7-67, Cl. 52—200.
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Rhodes, Barry V., and Bloxsom. 3,334,485.
Bloxsom, Jack O., and T. R. Mariage. Roof buggy. 3,360,145, 12-26-67, Cl. 214—506.
Bloyaert, Felix, and H. Toussaint, to Solvay & Cie. Polymerization of olefins in the presence of a catalyst modified with an organic anhydride. 3,303,181, 2-7-67, Cl. 260—94.9.
Bloyaert, Felix, and H. Toussaint, to Solvay & Cie, Societe en Commandite. Catalyst for the polymerization of olefins consisting of tin or lead tetrahydrocarbyls, a transition metal halide, a halide of a metal selected from the third and fifth groups and an ether. 3,320,227, 5-16-67, Cl. 260—94.9.
Blozis, Peter P., to Han, Inc. Overload limiter for snow blowers. 3,313,049, 4-11-67, Cl. 37—43.
Blubaugh, Otto J., to Jeffrey Galion Mfg. Co. Belt conveyor weighing apparatus. 3,331,457, 7-18-67, Cl. 177—16.
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Harris, Sterling G. 3,302,236.
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Blue Giant Equipment of Canada Ltd.: *See*—
Larsen, Kurt K., and Pedersen. 3,316,575.
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Horton, Donelson B. 3,319,831.
Horton, Donelson B. 3,346,006.
Blue Meridian Co., Inc.: *See*—
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Blue, Sidney D., to Reeves Brothers, Inc. Foam and fiber combination product and method of making same. 3,352,739, 11-14-67, Cl. 161—81.
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Bluemink, Gary G., to M & L Industries, Inc. Brush holder assembly and mounting. 3,309,549, 3-14-67, Cl. 310—247.
Bluestein, Ben A., to General Electric Co. Substituted silanes. 3,310,578, 3-21-67, Cl. 260—448.8.
Bluestein, Ben A., to General Electric Co. Process for making equilibration of organopolysiloxanes using phosphorous-containing catalysts. 3,318,843, 5-9-67, Cl. 260—46.5.
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Schultz, Mortimer A., Shaw, and Bluestein. 3,294,440.
Bluestone, Henry: *See*—
Battershell, Robert D., and Bluestone. 3,331,735.
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Blum, Adolf: *See*—
Tartter, Arnold, and Blum. 3,320,020.
Blum, Asher S, to Zenith Radio Corp. Bimorph flexural acoustic amplifier. 3,325,743, 6-13-67, Cl. 330—5.
Blum, Asher S., to Zenith Radio Corp. Multi-electrode acoustic amplifier with unitary transducing and translating medium. 3,334,307, 8-1-67, Cl. 330—5.
Blum, Fred. Dispenser package for cigarettes or articles of similar shape. 3,360,114, 12-26-67, Cl. 206—41.2.

Blum, Heinz, to Hooker Chemical Corp. Method of making electrically insulated ferrous magnetic sheet material. 3,318,731, 5-9-67, Cl. 117—215.

Blum, Heinz, and H.-J. Edler, to Hooker Chemical Corp. Process for providing an improved phosphate insulating coating on ferrous magnetic material. 3,297,493, 1-10-67, Cl. 148—6.15.

Blum, Jack E., and J. W. Ezell, to General Motors Corp. Spark plug with a conductive glass seal electrode of glass, copper and zinc. 3,349,275, 10-24-67, Cl. 313—136.

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Blum, Louis, to Blumcraft of Pittsburgh. Fastener assembly. 3,306,585, 2-28-67, Cl. 256—65.

Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Ornamental railing structure. 3,300,192, 1-24-67, Cl. 256—65.

Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Handrail. 3,306,641, 2-28-67, Cl. 287—189.36.

Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Barrier structure. 3,312,029, 4-4-67, Cl. 52—495.

Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Stairway suspended from stringers. 3,331,467, 7-18-67, Cl. 182—106.

Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Ornamental railing. 3,351,324, 11-7-67, Cl. 256—68.

Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Ornamental railing terminal. 3,356,392, 12-5-67, Cl. 287—20.924.

Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Ornamental railing. 3,358,969, 12-19-67, Cl. 256—24.

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Blum, Pierre, L. Bochirol, and C. Moreau, to Commissariat a l'Energie Atomique. Process for the fabrication of bodies formed by dispersion of refractory material within a pyrocarbon matrix which is impervious to gases. 3,309,434, 3-14-67, Cl. 264—.5.

Blum, Pierre, L. Bochirol, and C. Moreau, to Commissariat a l'Energie Atomique. Process for the fabrication of bodies formed by dispersion of refractory material within a pyrocarbon matrix which is impervious to gases. 3,325,570, 6-13-67, Cl. 264—.5.

Blum, Pierre, P. Guinet, and H. Vaugoyeau, to Commissariat a l'Energie Atomique. Nuclear fuel material of $U_3C_2Si_2$ and method of preparation. 3,336,116, 8-15-67, Cl. 23—346.

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Blum, Samuel E.: *See*—
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Blumberg, Harold, I. J. Pachter, and Z. Matossian, to Endo Laboratories, Inc. 14-hydroxydihydronormorphinone derivatives. 3,332,950, 7-25-67, Cl. 260—285.

Blumberg, Martin, and J. A. Holly, to United States of America, Army. Transistorized pulse to D.C. converter. 3,315,095, 4-18-67, Cl. 307—88.5.

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Baniel, Avraham M., Blumberg, and Alon. 3,338,674.

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Blumbergs, John H., D. G. MacKeller, and S. Berkowitz, to FMC Corp. Peroxygen compositions. 3,332,882, 7-25-67, Cl. 252—186.

Blumcraft of Pittsburgh: *See*—
Blum, Louis. 3,306,585.
Blum, Louis, and Horgan. 3,300,192.
Blum, Louis, and Horgan. 3,306,641.
Blum, Louis, and Horgan. 3,312,029.
Blum, Louis, and Horgan. 3,331,467.
Blum, Louis, and Horgan. 3,351,324.
Blum, Louis, and Horgan. 3,356,392.
Blum, Louis, and Horgan. 3,358,969.

Blume, Horst K., to Phoenix Precision Instrument Co. Photoelectric dual pump control providing a constant combined output. 3,304,869, 2-21-67, Cl. 103—11.

Blume, Maurice. Fence stretcher. 3,350,064, 10-31-67, Cl. 254—83.

Blume, Michael H.: *See*—
Lethin, Walter R., and Blume. 3,331,056.

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Boissier, Jacques R., and C. E. Malen, to Societe Anonyme dite: Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.). Derivatives of thiachromanes and process for preparation. 3,355,459, 11–28–67, Cl. 260—327.

Boissier, Pierre, to Usines et Acieries de Sambre et Meuse. Rigid railway bogie. 3,338,183, 8–29–67, Cl. 105—202.

Boissieras, Jean, L. F. Ceyzeriat, and M. J. C. Lefort, to Rhone-Poulenc S.A. Organosilicon compounds and their use. 3,318,898, 5–9–67, Cl. 260—293.

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Boissonnas, Roger, and E. Sandrin, to Sandoz Ltd. (also known as Sandoz A.G.). L-aspartyl-L-alanyl-L-phenylalanyl-L-isoleucylglycyl-L-leucyl-L-methioninamide and its acid addition salts. 3,299,035, 1–17–67, Cl. 260—112.5.

Boissonnas, Roger, and R. Huguenin, to Sandoz Ltd. (also known as Sandoz A.G.). Novel polypeptides and intermediates for the preparation thereof. 3,299,036, 1–17–67, Cl. 260—112.5.

Boissonnas, Roger, and S. Guttmann, to Sandoz Ltd. (also known as Sandoz A.G.). Novel polypeptides and intermediates for the preparation therefor. 3,299,037, 1–17–67, Cl. 260—112.5.

Boissonnas, Roger, and S. Guttmann, to Sandoz Ltd. Alanine 4-oxytocin. 3,318,864, 5–9–67, Cl. 260—112.5.

Boissonnas, Roger, and E. Sandrin, to Sandoz Ltd. L-prolyl-L-seryl-L-lysyl-L-alanyl-L-phenylalanyl-L-isoleucyl-glycyl - L-leucyl-L-methionine amide. 3,328,382, 6–27–67, Cl. 260—112.5.

Boissonnas, Roger, R. Huguenin, B. Berde, and W. Schalch, to Sandoz, Ltd. (also known as Sandoz A.G.) Phe-2-orn-8-oxytocin. 3,352,843, 11–14–67, Cl. 260—112.5.

Boissonnas, Roger, S. Guttmann, and J. Pless, to Sandoz Ltd., also known as Sandoz A.G. $Nleu^4$-lys^{17}-lys^{18}-α^{1-25}-ACTH-val^{25}-amide. 3,352,844, 11–14–67, Cl. 260—112.5.

Boiston, David A., and D. C. F. Pratt, to Courtaulds Ltd. Manufacture of anhydrous sodium sulphate. 3,331,661, 7–18–67, Cl. 23—121.

Boisvert, Lilliane B. Mouth protector for saliva ejector. 3,333,340, 8–1–67, Cl. 32—33.

Boitas, Edward J., and L. D. Tearne, to International Telephone and Telegraph Corp. Carrier for pneumatic-tube system. 3,323,755, 6–6–67, Cl. 243—35.

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Bojner, Gustav. Device in rotatable drums for suspending chain systems for heat exchange. 3,333,837, 8–1–67, Cl. 263—33.

Bojner, Gustav and Gösta. Apparatus for treatment of loose materials with gaseous mediums. 3,325,912, 6–20–67, Cl. 34—169.

Bokros, Jack C., W. V. Goeddel, J. Chin, and R. J. Price, to United States of America, Atomic Energy Commission. Pyrolytic carbon coated particles for nuclear applications. 3,298,921, 1–17–67, Cl. 176—67.

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Boksjo, Carl L., to Allmanna Svenska Elektriska Aktiebolaget Vasteras. Over voltage protection means for high voltage mercury arc rectifiers. 3,310,707, 3–21–67, Cl. 315—123.

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Boksjo, Carl L., and E. G. Hedenbo, to Allmanna Svenska Elektriska Aktiebolaget. Rectifier and voltage divider means utilized as by-pass means for converters. 3,302,094, 1–31–67, Cl. 321—27.

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Bolde, Michael W. Dental materials mixing apparatus. 3,342,460, 9–19–67, Cl. 259—122.

Boldebuck, Edith M., and J. F. Klebe, to General Electric Co. Silylated polyamide-acids and compositions thereof. 3,303,157, 2–7–67, Cl. 260—30.4.

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Bolesky, John D., to Thermo-O-Disc, Inc. Snap acting thermal disc with bent-over angulated leaf spring contact member. 3,317,693, 5–2–67, Cl. 200—138.

Bolesky, Richard C., to Uniroyal, Inc. Methods and apparatus for making cushioned articles. 3,325,329, 6–13–67, Cl. 156—216.

Bolesky, Richard C., to United States Rubber Co. Method of fastening. 3,344,504, 10–3–67, Cl. 29—432.2.

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Bolger, James W., to Rexall Drug and Chemical Co. Substituted 1-hydroxydibenzopyrans. 3,325,490, 6–13–67, Cl. 260—247.2.

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Bolhofer, William A., and J. J. Baldwin, to Merck & Co., Inc. Cycloaliphatic substituted naphthyloxy-alkanoic acids and a method for their preparation. 3,347,910, 10–17–67, Cl. 260—520.

Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Method and apparatus for binding paper. 3,321,786, 5–30–67, Cl. 11—1.

Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Remote call-in multiple recorder switching system. 3,328,536, 6–27–67, Cl. 179—100.1.

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Bolinger, Howard and R. W. Material spreading vehicle. 3,334,760. 8-8-67, Cl. 214—355.

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Bolland, Roger Y. H. H., to Societe Anonyme Glaceries Reunies. Fluid quenching apparatus for producing a differentially toughened zone in a toughened glass. 3,304,166, 2-14-67, Cl. 65—273.

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Snider, Gerald E., and Boller. 3,311,495.

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Bolling, Thomas J., Jr. Closed fluid system for sealing valve closure elements. 3,353,783, 11-21-67, Cl. 251—172.

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Bolton, James F., to J. F. Bolton. Settling tanks for sewage. 3,337,057, 8-22-67, Cl. 210—527.

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Bond, Donald C., to Union Oil Co. Method for recovering oil from subterranean formations. 3,342,261, 9-19-67, Cl. 166—11.

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Bond, Robert D., to B. C. Ames Co. Breakaway connection. 3,339,845, 9-5-67, Cl. 239—283.

Bond, Robert E.: *See*—
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Bond, Robert M. Apparatus for sharpening saws or the like. 3,357,278, 12-12-67, Cl. 76—43.

Bondarenko, Donald D., to American Cyanamid Co. Herbicidal compositions and processes of controlling undesirable plant species in the presence of crops therewith. 3,351,458, 11-7-67, Cl. 71—121.

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Bonde, Robert L.: *See*—
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Bondesen, Anton J., Jr., and R. F. Carr. Ski line winder. 3,326,493, 6-20-67, Cl. 242—107.4.

Bondesson, Erik, and E. Tehler. Panel structures for suspending display stands. 3,315,818, 4-25-67, Cl. 211—148.

Bondroit, Fritz, to Goetzewerke Friedrich Goetz A.-G. Sealing means for flanges, especially for cylinder heads. 3,346,266, 10-10-67, Cl. 277—153.

Bond's Wear Pty. Ltd.: *See*—
Kennedy, Alan M., and Wood. 3,354,852.

Bondurant, James A.: *See*—
Humpherys, Allan S., and Bondurant. 3,300,985.

Bondy, Clemens: *See*—
Cruden, John M. and Bondy. 3,321,431.

Bone, Evan P., deceased (by L. M. Bone, executrix), to J. Page Hayden. Head light having ellipsoidal reflector. 3,345,510, 10-3-67, Cl. 240—41.3.

Bone, Leah M.: *See*—
Bone, Evan P. 3,345,510.

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Bonetti, Giovanni A., and R. Rosenthal, to The Atlantic Refining Co. Conversion of nitroolefins to nitroalcohols. 3,347,939, 10-17-67, Cl. 260—641.

Bonfield, John H., and A. W. Sogn, to Allied Chemical Corp. Process for separating cyclohexane oxidation products. 3,350,444, 10-31-67, Cl. 260—531.

Bongard, James A., and M. R. Swinehart, to Cutler-Hammer, Inc. Sealed switches. 3,327,262, 6-20-67, Cl. 335—154.

Bongenaar, Willem, to North American Philips Co. Inc. Magnetic core switch. 3,351,772, 11-7-67, Cl. 307—88.

Bongort, Edgar A.: *See*—
Akin, Welling T., and Bongort. 3,313,902.

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Bonin, Edward L., and J. S. Kilby, Texas Instruments Inc. Electrical chopper comprising photosensitive transistors and light emissive diode. 3,304,429, 2-14-67, Cl. 250—217.

Bonin, George E., to Corning Glass Works. Grinding and polishing pad. 3,355,843, 12-5-67, Cl. 51—397.

Bonin, Richard E., and J. R. Tucker, Jr., to General Electric Co. Electrical cable support. 3,335,326, 8-8-67, Cl. 317—99.

Bonino, Bruce S., to United States Rubber Co. Instrument and method for profile generation. 3,315,265, 4-18-67, Cl. 346—1.

Bonis, George, to Sunstates Sportswear, Inc. Sewing machine confrol system. 3,298,341, 1-17-67, Cl. 112—219.

Bonis, Laszlo J., to Ilikon Corp. Lubricant composition and articles and process of preparing and using the same. 3,297,571, 1-10-67, Cl. 252—12.

Bonis, Laszlo J. to Ilikon Corp. Method of grain refining zinc. 3,360,366, 12-26-67, Cl. 75—178.

Bonis, Laszlo J., O. A. Sandven, and B. Manning, to Ilikon Corp. Method of heating and forming powdered metals. 3,331,686, 7-18-67, Cl. 75—226.

Bonis, Laszlo J., and A. F. Witt, to Ilikon Corp. Method of blowing aluminum. 3,342,248, 9-19-67, Cl. 164—55.

Bonjour, Maurice: *See*—
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Bonmarin, Jacques, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for the treatment of magnesium-silicon aluminum alloys. 3,337,377, 8–22–67, Cl. 148—159.

Bonn, Robert P., to Westinghouse Electric Corp. Strip thickness control apparatus. 3,332,264, 7–25–67, Cl. 72—16.

Bonn, Theodore H., to Honeywell Inc. Laser recorder using medium having encapsulated chemicals. 3,351,948, 11–7–67, Cl. 346—76.

Bonn, Theodore H., R. Brooke, and H. A. Goldman, to Honeywell Inc. Unit record processing apparatus. 3,307,556, 3–7–67, Cl. 129—16.1.

Bonnard, Lucien, to Societe Rhodiaceta. Synthetic linear copolyesters and shaped articles containing them. 3,312,667, 4–4–67, Cl. 260—75.

Bonnefoy, Jean R. H., to Printed Motors Inc. Flat annular airgap electric rotary machines. 3,354,332, 11–21–67, Cl. 310—268.

Bonnell, Charles R., and K. L. McMillen, to Standard Precision, Inc. Mechanical movement. 3,342,077, 9–19–67, Cl. 74—89.2.

Bonnell, Charles R., and K. L. McMillen, to Electronic Communications, Inc. Roll-stabilized platform. 3,357,242, 12–12–67, Cl. 73—178.

Bonnell, Larry W. Combination agricultural machine. 3,352,261, 11–14–67, Cl. 111—8.

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Bonner, Willard H., Jr., to E. I. du Pont de Nemours and Co. Crystalline polyalkylene isophthalamide filaments with voids. 3,325,342, 6–13–67, Cl. 161—178.

Bonnet, Georges, to Commissariat a l'Energie Atomique. Device including a logical multiplication matrix for calculating correlation functions. 3,327,103, 6–20–67, Cl. 235—181.

Bonnet, Yannik, and G. Vivant, to Rhone-Poulenc S.A. Cyclopentadecane carboxylic acid and its lower alkyl esters. 3,330,854, 7–11–67, Cl. 260—468.

Bonnette, Roland E., to United Shoe Machinery Corp. Counting devices. 3,310,661, 3–21–67, Cl. 235—92.

Bonnette, Roland E., and F. W. Spencer, to United Shoe Machinery Corp. Conveyor systems. 3,305,073, 2–21–67, Cl. 198—38.

Bonney, Robert B., and C. R. Sublett, to Electronic Engineering Co. of California. Computer language translator. 3,321,609, 5–23–67, Cl. 235—154.

Bonney, Robert E., 25% to S. Brookins, 5% to T. R. Cavines, 5% to C. S. Bailey, and 5% to E. C. Paine. Mold holder assembly for mounting in a molding apparatus. 3,310,276, 3–21–67, Cl. 249—120.

Bonnin, Andre, and S. Yardamian, to Saint Gobain Techniques Nouvelles. Method of preparation of solution containing barium 137. 3,345,305, 10–3–67, Cl. 252—301.1.

Bonning, Nelson G., to Buffalo China, Inc. Cup topping machine. 3,355,840, 12–5–67, Cl. 51—71.

Bono, Luigi, to Necchi Societa per Azioni. Sewing apparatus for sewing in accordance with a pre-formed pattern. 3,349,731, 10–31–67, Cl. 112—2.

Bono, Luigi, to Necchi Societa per Azioni. Automatic fabric feeder device for sewing machines. 3,352,262, 11–14–67, Cl. 112—2.

Bono, Luigi, to Necchi Societa per Azioni. Pattern sewing device for sewing machines. 3,356,052, 12–5–67, Cl. 112—158.

Bono, Luigi, to Necchi Societa Per Azioni. Apparatus for stopping a sewing machine with its needle in pre-determined position. 3,358,629, 12–19–67, Cl. 112—219.

Bono, Luigi, to Necchi Societa per Azioni. Thread-cutting mechanism for sewing machines. 3,359,933, 12–26–67, Cl. 112—252.

Bono, Philip: *See*—
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Bonta, Simon, to Sterling Drug, Inc. Myristyl dimethyl benzylammonium chloride dihydrate. 3,360,563, 12–26–67, Cl. 260—567.6.

Bontempi, Ignatius, to De Francisci Machine Corp. Alimentary paste products can filling machine and method. 3,315,620, 4–25–67, Cl. 107—69.

Bontempi, Ignatius, and I. De Francisci, to De Francisci Machine Corp. Spaghetti drier apparatus. 3,340,991, 9–12–67, Cl. 198—21.

Bontempo, Andrew, to American Telephone and Telegraph Co. Multidigit register circuit having random interrogating means. 3,311,709, 3–28–67, Cl. 179—18.

Bontrager, Lloyd J., to Star Tank and Boat Co. Travel trailer. 3,314,715, 4–18–67, Cl. 296—23.

Bonuchi, James A., J. L. Hathorn, and R. S. Zebarth, to Gordon Johnson Co. Separation of poultry shanks from drumsticks. 3,323,164, 6–6–67, Cl. 17—11.

Bonvallet, Gordon G., to Corning Glass Works. Reflex marker. 3,343,467, 9–26–67, Cl. 94—1.5.

Bonvalot, Pierre, and B. Courtan, to CSF-Compagnie Generale de Telegraphie Sans Fil. Storage tube target and method for making same. 3,354,334, 11–21–67, Cl. 313—68.

Bonvicini, Alberto, and E. Ildos, to Montecatini Edison S.p.A. Poly-alpha-olefin pyridinic polyamide compositions having high receptivity to dyestuffs. 3,320,334, 5–16–67, Cl. 260—857.

Bonvicini, Alberto, and E. Ildos, to Montecatini Edison S.p.A. Treatment of polyolefin-nitrogenous resin fiber with methyl aziridinyl phosphoxides. 3,321,267, 5–23–67, Cl. 8—100.

Bonzi, Stephen A., to The Babcock & Wilcox Co. Precision rotary work table. 3,336,823, 8–22–67, Cl. 77—64.

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Booe, James M., to P. R. Mallory & Co., Inc. Atmosphere control within the hermetic enclosure of electrolytic capacitor assemblies. 3,297,918, 1–10–67, Cl. 317—230.

Booe, James M., to P. R. Mallory & Co., Inc. Seal structure in electrolytic device including disc-members and anode spacer. 3,300,692, 1–24–67, Cl. 317—230.

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Walker, John C. F., III, and Booher. 3,351,004.

Booher, Richard B., to Owens-Illinois, Inc. Electrical printing using stencil and moving slot powder metering means. 3,307,477, 3–7–67, Cl. 101—114.

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Githens, Samuel E., Jr., and Booher. 3,319,057.

Booher, Russell L.: *See*—
Low, Hans, Booher, and Lauck. 3,303,131.

Bootj, Jan G., to Aviolanda Maatschappij voor Vliegtuigbouw N.V. Installation for unloading a number of holders. 3,300,027, 1–24–67, Cl. 198—143.

Book Covers, Inc.: *See*—
Mullen, Edward K., and Carter. 3,318,618.

Book, Nils, to Aktiebolaget Motala Verkstad. Apparatus for disintegrating materials by means of liquid jets. 3,326,607, 6–20–67, Cl. 299—58.

Book, Walter R., to Anaconda American Brass Co. Electrical connector. 3,323,100, 5–30–67, Cl. 339—242.

Booker, Aylwin R. Heat shrinkable connector for electrical wire. 3,320,355, 5–16–67, Cl. 174—84.

Booker, Finis E. Complementary acting valves for recirculating fluid distribution apparatus. 3,312,243, 4–4–67, Cl. 137—609.

Booker, Jasper A. Commuter ticket-book holder. 3,315,799, 4–25–67, Cl. 206—40.5.

Books, Ralph C., and P. E. Olson, to Westinghouse Air Brake Co. Automatic control apparatus for variable pitch propellers. 3,302,724, 2–7–67, Cl. 170—135.74.

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Boom, Roger W., to North American Aviation, Inc. Stable superconducting magnet. 3,310,765, 3–21–67, Cl. 335—216.

Boomgaard, Dirk J., to Westinghouse Electric Corp. Dual mode oscillator circuit with phase shift circuit to prevent band jumping. 3,324,412, 6–6–67, Cl. 331—117.

Boon, Derk J., to Reeves Bros., Inc. Manufacture of foam material. 3,325,823, 6–13–67, Cl. 264—41.

Boon, Derk J., and K. F. Hager, to Reeves Bros., Inc. Manufacture of foam material. 3,325,573, 6–13–67, Cl. 264—54.

Boon, George B., to Monsanto Co. Pressure vessel and closure. 3,313,599, 4–11–67, Cl. 23—290.

Boon, George B., to Monsanto Co. Pressure vessel closure. 3,315,836, 4–25–67, Cl. 220—46.

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De Wit, Cornelis T., Van Hoesel, and Boon. 3,360,312.

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Boone, Arthur M., G. F. Bridges, and W. R. Shaver, to Pullman Inc. Bridge plate arrangement. 3,323,472, 6–6–67, Cl. 105—458.

Boone, Frank L., and K. W. Maurer, to H. L. Baker. Apparatus for cutting, creasing, scoring, and the like. 3,340,778, 9–12–67, Cl. 93—58.

Boone, Jack L.: *See*—
Badger, Robert E., and Boone. 3,345,491.

Boone, Jack L., to Dow Corning Corp. Oil resistant silicone rubber-metal laminates and method of making same. 3,360,425, 12–26–67, Cl. 161—186.

Boone, James L., to United States Borax & Chemical Corp. Bicyclic borazole compound. 3,317,596, 5–2–67, Cl. 260—551.

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Boone, Ralph D. Method and means for moving an irrigation system. 3,302,656, 2–7–67, Cl. 137—1.

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Boone, Walter D. Waistband holster. 3,315,855, 4–25–67, Cl. 224—1.

Boonshaft, Julius C., to Weston Instruments, Inc. Piston. 3,319,534, 5–16–67, Cl. 92—162.

Boonshaft, Julius C., to Weston Instruments, Inc. Actuating mechanism. 3,357,676, 12–12–67, Cl. 251—30.

Boonstra, Bram B., and J. H. Atkins, to Cabot Corp. Pellet transports and crush strength testing apparatus. 3,331,241, 7–18–67, Cl. 73—94.

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Booth, Galt B., to Textron Electronics, Inc. Piezoresistive device. 3,303,452, 2–7–67, Cl. 338—5.

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Booth, John S. Forced draft refrigerator. 3,299,664, 1–24–67, Cl. 62—419.

Booth, John S. Transparent refrigerator door control. 3,307,373, 3–7–67, Cl. 62—248.

Booth, John S. Torsion door hinge. 3,339,225, 9–5–67, Cl. 16—151.

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Boothroyd, Howard W., to Sanders Associates, Inc. Vernier balancing and damping for gyro systems. 3,347,104, 10–17–67, Cl. 74—5.5.

Boothroyd, Howard W., H. E. Perry, J. M. Buzzell, and T. W. Nachazel, to Sanders Associates, Inc. Constant damping gyro system. 3,352,163, 11–14–67, Cl. 74—5.5.

Booty, Donald J., and G. J. Kamka, to A. Schechter. Dispensing apparatus. 3,308,992, 3–14–67, Cl. 222—76.

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Jauernik, Edmund, and Bopp. 3,351,867.

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Bopp, Cecil W., to The Greater Iowa Corp. Wheel mounted unloading fork. 3,301,420, 1–31–67, Cl. 214—372.

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Boppart, Loren P., and G. W. Berryhill, to Starline, Inc. Silage distributor. 3,353,691, 11–21–67, Cl. 214—17.

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Borack, Joseph, to Com-Tech, Inc. Hand printer and method of making same. 3,315,601, 4–25–67, Cl. 101—368.

Boragina, Vincent, G. W. Schneider, and S. J. Stramaglia. Registration device for spacing and punching registration holes. 3,322,014, 5–30–67, Cl. 83—468.

Borah, John E. Lubricating fixture guard. 3,332,515, 7–25–67, Cl. 184—88.

Borah, John E. Mold mounting structure for press. 3,343,218, 9–26–67, Cl. 18—16.

Borah, John E. Golf putter with a shaft connected intermediate a spherical element and a head. 3,343,839, 9–26–67, Cl. 273—80.2.

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Borchard, Heinz, and E. Herrmann, to Teldec-Telefunken-Decca-Schallplatten G.m.b.H. Release means. 3,311,951, 4–4–67, Cl. 18—5.3.

Borchardt, Hans J., to E. I. du Pont de Nemours and Co. Selected luminescent molybdates and tungstates of Sc, La, Eu, Gd, and Lu. 3,328,311, 6–27–67, Cl. 252—301.5.

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Borchert, Carl F., to Avco Corp. Composite superconductor. 3,332,047, 7–18–67, Cl. 335—216.

Borchert, Gerhard E., E. Drager, H. W. H. Born, H. Mewes, and A. W. O. Pingel, to Bundesdruckerei. Machine for sorting paper stacks. 3,335,859, 8–15–67, Cl. 209—111.6.

Borchert, Peter J., to Miles Laboratories, Inc. Dispersions and process therefor. 3,313,641, 4–11–67, Cl. 106—213.

Borck, Joachim, K. Schulte, H. Muller-Calgan, and S. Sommer, to E. Merck Aktiengesellschaft. Novel piperidine derivatives. 3,328,411, 6–27–67, Cl. 260—293.

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Borck, Walter C., Jr., and D. K. Sloper, to Westinghouse Electric Corp. Parallel computer system control. 3,308,436, 3–7–67, Cl. 340—172.5.

Borcuk, Michael W. Ice anchor. 3,305,984, 2–28–67, Cl. 52—155.

Bord, Max. Slidable blade type safety razor having an adjustable razor head and blade exposure means. 3,317,995, 5–9–67, Cl. 30—87.

Bordel-Mathiolon, Henri: *See*—
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Borden, Alec J. Liquid extractor system. 3,347,455, 10–17–67, Cl. 233—19.

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Boschi, Antonio, to Societa Applicazioni Gomma Antivibranti "SAGA" S.p.A. Resilient suspension system, more particularly for motor vehicle. 3,323,786, 6–6–67, Cl. 267—63.

Boschi, Antonio, to Societa Applicazioni Gamma Antivibranti "SAGA" S.p.A. Expansion joint for road sections. 3,324,774, 6–13–67, Cl. 94—18.

Boschi, Antonio, and G. Martorana, to Societa Applicazioni Gomma Antivibranti "SAGA" S.p.A. Compression springs of rubber. 3,315,951, 4–25–67, Cl. 267—1.

Boschi, Giorgio: *See*—
Natta, Giulio, Mazzanti, and Boschi. 3,300,459.

Bosco, George B., Jr., and H. E. Corbitt, to Aerojet-General Corp. Axial airgap dynamoelectric machine. 3,304,450, 2–14–67, Cl. 310—126.

Bosco, George B., Jr., and H. E. Corbitt, to Aerojet-General Corp. Brushless alternator for vehicles. 3,320,450, 5–16–67, Cl. 310—168.

Bose, Ajay K., and R. T. Dahill, Jr., to Research Corp. Cyanomethylene steroid compounds. 3,337,590, 8–22–67, Cl. 260—397.

Bose, Robert N.: *See*—
Tibbitts, William L., and Bose. 3,302,549.

Bose, Robert N., W. L. Tibbitts, and R. I. Ranum, to Whirlpool Corp. Carbon dioxide generator. 3,348,922, 10–24–67, Cl. 23—281.

Boser, Bernard E., and J. A. Mares. Flower pot supporting attachment for cemetery monuments. 3,310,911, 3–28–67, Cl. 47—39.

Boser, Ronald J. Sewing machine presser foot having an adjustable shank. 3,326,159, 6–20–67, Cl. 112—235.

Boser, Ronald J. Adjustable pressure foot construction for sewing machines. 3,334,605, 8–8–67, Cl. 112—235.

Boser, Ronald J., to B & W Mfg. Co., Inc. Sewing machine feeder drive means. 3,349,734, 10–31–67, Cl. 112—203.

Boser, Ronald J., and E. Weschler. Sewing machine triple feeder attachment for stitching elastic to cloth pieces. 3,295,484, 1–3–67, Cl. 112—158.

Boser, Ronald J., and E. L. Weschler. Positive margin control attachment for sewing machines. 3,334,603, 8–8–67, Cl. 112—152.

Boshold, Raymond F., to Baldwin-Lima-Hamilton Corp. Extrusion press container apparatus. 3,352,141, 11–14–67, Cl. 72—272.

Bosko, John L.: *See*—
Bosko, John M. and J. L. 3,336,617.
Bosko, John M. and J. L., and Lindecker. 3,334,899.

Bosko, John M. and J. L., and J. B. Lindecker. Weighted fluid-containing exerciser with transparent walls. 3,334,899, 8–8–67, Cl. 272—84.

Bosko, John M. and J. L. Paint brush holder with telescopic handle sections. 3,336,617, 8–22–67, Cl. 15—146.

Bosland, Cornelius W., B. R. McFadden, and R. J. Brookman, to AMP Inc. Assembly and drive mechanism for electrical switches and connectors. 3,348,102, 10–17–67, Cl. 317—112.

Bosland, James M., to Ketcham & McDoughald, Inc. Perpetual calendar. 3,333,356, 8–1–67, Cl. 40—114.

Bosler, Gerald E., W. H. Graham, and D. R. Trump, to North Electric Co. Core threading apparatus. 3,336,650, 8–22–67, Cl. 29—203.

Bosler, Krell, to Borg-Warner Corp. Self-rimming lavatory. 3,358,296, 12–19–67, Cl. 4—187.

Bosley, Denis V. Slide changing mechanism. 3,355,827, 12–5–67, Cl. 40—79.

Bosma, Hendrik, to North American Philips Co., Inc. Band line circulator having equal capacitances at each port in order to reduce the optimum operating frequency. 3,311,849, 3–28–67, Cl. 333—1.1.

Bosman, Aleidus: *See*—
Gordon, Gerald M., and Bosman. 3,333,461.

Bosman, Leendert, to Lips N.V. Copper base alloys containing manganese and aluminium. 3,297,437, 1–10–67, Cl. 75—157.5.

Bosman, Leendert, to Lips N.V. Copper base alloys containing manganese, aluminum and zinc. 3,323,913, 6–6–67, Cl. 75—157.5.

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Mayhew, Raymond L., Bosniack, and Grosser. 3,332,938.

Bosold, Leonard R., to Republic Steel Corp. Universal electrode clamps. 3,317,647, 5–2–67, Cl. 13—16.

Bosquain, Maurice, and M. Grenier, to l'Air Liquide Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude. Heat exchanger with baffle structure. 3,326,280, 6–20–67, Cl. 165—161.

Bosquet, Maurice E. Meteorological alarm clock. 3,315,462, 4–25–67, Cl. 58—152.

Boss, Karl-Heinz: *See*—
Meyer, Kurt, von Struve, Reimann, and Boss. 3,338,705.

Bossa, Eduardo. Plastic compound catenary for anchorage and pipeline and/or cable support in any sea zone and depth. 3,295,489, 1–3–67, Cl. 114—206.

Bossard, Frederick R. to Deere & Co. Corn treating mechanism. 3,324,859, 6–13–67, Cl. 130—5.

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Ammann, Jurg, and Bossard. 3,320,231.
Bosshard, Hans, and Bossard. 3,338,659.
Dussy, Paul, Ammann, and Bossard. 3,342,798.
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Voltz, Jacques, and Bossard. 3,321,460.
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Wegmuller, Hans E., Bossard, Voltz, and Favre. 3,341,513.

Bossard, Werner, and H. Bosshard, to J. R. Geigy A.G. β-Arylated naphthoxidine containing mono azo dyestuffs. 3,320,234, 5–16–67, Cl. 260—205.

Bossard, Werner, and F. Favre, to J. R. Geigy, A-G. Water-dispersible mono-azo dyestuffs. 3,344,133, 9–26–67, Cl. 260—163.

Bosse, Robert W., to Groov-Pin Corp. Insert orienting equipment 3,310,153, 3–21–67, Cl 198—33.

Bosse, Robert W., to Groov-Pin Corp. Insert driver device. 3,333,613, 8–1–67, Cl. 144—32.

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Bossard, Werner, and Bosshard. 3,320,234.
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Bosshard, Hans, and W. Bossard, to J. R. Geigy, A.G. Method and composition for dyeing certain textile fibers with β-arylated naphthoxidines. 3,338,659, 8–29–67, Cl. 8—39.

Bosshard, Hans H., P. Ulrich, H. P. Schaub, and E. J. Koller, to Ciba Corp. Process for dyeing and printing with reactive dyestuffs. 3,325,242, 6–13–67, Cl. 8—54.

Bosshard, Hans H., and A. Eschenmoser, to Ciba Ltd. Process for modifying polyamides with an alkylating agent and a nitrogen base in an aqueous medium. 3,340,210, 9–5–67, Cl. 260—9.

Bosshardt, Rolf: *See*—
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Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. Method of inducing calming and muscle relaxation with carbamates. 3,313,692, 4–11–67, Cl. 167—65.

Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. Carbamate sedative compositions and method of use. 3,313,696, 4–11–67, Cl. 167—65.

Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. Carbamate compositions for and methods of treating the central nervous system. 3,313,697, 4–11–67, Cl. 167—65.

Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. Compositions for and method of treating the central nervous system. 3,313,699, 4–11–67, Cl. 167—65.

Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. Method of treating the central nervous system with substituted phenethyl carbamates and compositions therefor. 3,313,700, 4–11–67, Cl. 167—65.

Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. Carbamate compositions and methods of using. 3,338,785, 8–29–67, Cl. 167—65.

Bossung, Kenneth W. Mechanical sorting device. 3,331,507, 7–18–67, Cl. 209—121.

Boster, Samuel B. Thin walled container and closure therefor. 3,307,602, 3–7–67, Cl. 150—.5.

Bostian, Logan C.: *See*—
Lund, Richard B., Vitrone, and Bostian. 3,358,043.

Bostian, Logan C., R. B. Lund, B. C. Oxenrider, and G. J. Schmitt, to Allied Chemical Corp. Polycarbonates prepared from a bis(halo-p-hydroxycumyl)benzene. 3,340,229, 9–5–67, Cl. 260—47.

Bostick, Edgar E., to General Electric Co. Purification of cyclic organopolysiloxanes with heat-activated metal hydrides. 3,332,974, 7–25–67, Cl. 260—448.2.

Bostick, Edgar E., to General Electric Co. Ordered organopolysiloxanes. 3,337,497, 8–22–67, Cl. 260—46.5.

Bostick, Louis D. Overhead stapling machine. 3,310,215, 3–21–67, Cl. 227—111.

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Fisher, Edward I. 3,352,471.
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Bostock, James H., and J. E. Reagan, to Otis Engineering Corp. Self-cycling timing valve device. 3,336,945, 8–22–67, Cl. 137—624.14.

Bostock, Rylance H., Jr., to General Electric Co. Mounting of hardware on axial flow compressor casings. 3,313,475, 4–11–67, Cl. 230—114.

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Boston, Robert L.: *See*—
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Radke, Arthur O., and Rades. 3,336,079.
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Radke, Arthur O., and Wilton. 3,336,077.
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Thomson, George M., and Bosworth. 3,323,376.

Bostrom, John D., to Illinois Tool Works Inc. Composite container package. 3,344,974, 10–3–67, Cl. 229—43.

Bostrom, John D., to Illinois Tool Works Inc. Packaging device. 3,351,124, 11–7–67, Cl. 229—42.

Bostwick, James L. Safety brake actuator. 3,295,422, 1–3–67, Cl. 91—446.

Bostwick, James L. Automatic brake adjustor. 3,307,661, 3–7–67, Cl. 188—196.

Boswell, George A., to E. I. du Pont de Nemours and Co. Selected 17,17-difluoro steroids of the estrane series. 3,347,878, 10–17–67, Cl. 260—397.3.

Boswell, George A., Jr.: *See*—
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Jaffe, Hans, Cornely, Boswell, and Shunker. 3,339,090.

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Bosy, George, to National Dairy Products Corp. Treatment of grape juice. 3,301,684, 1–31–67, Cl. 99—105.

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Moss, Hoyle G., and Walters. 3,302,234.

Botden, Theodoor P. J.: *See*—
Klomp, Johannes T., Botden, and Klop. 3,317,298.

Botden, Theodoor P. J., J. T. Klomp, and A. J. C. van der Ven, to North American Philips Co. Inc. Ceramic article with sintered metallic layer and flux. 3,312,533, 4–4–67, Cl. 29—182.3.

Boteler, Henry W., to Grinnell Corp. Method of making valve bodies. 3,300,844, 1–31–67, Cl. 29—157.1.

Boteler, Henry W., to Grinnell Corp. Diaphragm valve and diaphragm therefor. 3,310,279, 3–21–67, Cl. 251—331.

Boteler, Henry W., to Grinnell Corp. Diaphragm valve. 3,310,280, 3–21–67, Cl. 251—331.

Boteler, Henry W., to Grinnell Corp. Diaphragm valve. 3,310,281, 3–21–67, Cl. 251—331.

Boteler, Henry W., to Grinnell Corp. Diaphragm control valves. 3,310,282, 3–21–67, Cl 251—331.

Boteler, John C. High-strength fastener. 3,298,725, 1–17–67, Cl. 287—189.36.

Botello, Gilber, R. E. Johnson, and E. A. Stockton; said Johnson and said Stockton assors. to said Botello. Fish cable tool. 3,355,148, 11–28–67, Cl. 254—134.3.

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Botham, Ruth A.: *See*—
Dunnavant, William R., and Botham. 3,351,602.

Bothmann, Hans, E. Dorn, and W. Krauss, to fur Zinkindustrie vorm. Wilh. Grillo, Aktiengesellschaft. Process for the manufacture of semi-finished products of zinc. 3,340,715, 9–12–67, Cl. 72—364.

Bothum, John D. Locking mechanism for pliers and the like. 3,313,190, 4–11–67, Cl. 81—323.

Bothwell, Peter W. Low-loading road vehicle. 3,314,685, 4–18–67, Cl. 280—6.

Botkin, Daniel F.: *See*—
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Botsford, Nelson, Jr., to Bell Telephone Laboratories, Inc. Electrical pulse generator. 3,299,422, 1–17–67, Cl. 340—347.

Botstiber, Dietrich W. Liquid filter and chip detector. 3,317,042, 5–2–67, Cl. 210—86.

Botstiber, Dietrich W., and N. S. Gable; said Gable assor. to said Botstiber. Magnetic filter with signalling means. 3,325,009, 6–13–67, Cl. 210—86.

Bott, David W.: *See*—
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Bott, George S.: *See*—
Vincent, James G., Jr., Hansen, Yen, Taylor, Bott, and Greif. 3,333,031.

Bott, Ian B., to Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Radiation generator operating in the millimeter and submillimeter wavelength range. 3,353,053, 11–14–67, Cl. 313—154.

Bott, John A. Luggage rack. 3,330,454, 7–11–67, Cl. 224—42.1.

Bott, Lawrence L.: *See*—
Braithwaite, David G., and Bott. 3,359,291.

Bott, Rolf R.: *See*—
Helber, Karl, and Bott. 3,357,332.

Bottaccio, Giorgio: *See*—
Chiusoli, Gian P., and Bottaccio. 3,312,731.

Bottani, Angelo, to Societa Internazionale Fonovisione S.p.A. Adjustable pickup device for optical sound track. 3,344,240, 9–26–67, Cl. 179—100.3.

Botten, John P., to The Owen Bucket Co. Load grab. 3,317,235, 5–2–67, Cl. 294—112.

Bottenbruch, Ludwig: *See*—
Fritz, Gerhard, Bottenbruch, and Schnell. 3,305,520.

Botterill, John R., F. Ostwald, C. Press, and W. Knapp, to Alfred Teves Maschinen- und Armaturenfabrik K.G. Hydraulic-decelerator system. 3,302,755, 2–7–67, Cl. 188—86.

Böttger, Friedrich, and P. Cüppers, to Maschinenfabrik Froriep G.m.b.H. Machine tool. 3,307,438, 3–7–67, Cl. 82—2.

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Bottomley, William E. K.: *See*—
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Bottoms, Clifford C. Rotary driving mechanism. 3,345,832, 10–10–67, Cl. 64—23.

Bottonari, Samuel A., to Westinghouse Electric Corp. Arc extinguishing structures for circuit interrupters. 3,307,004, 2–28–67, Cl. 200—144.

Bottone, Salvatore, Jr., to General Electric Co. Constant frequency fluid-mechanical oscillator. 3,333,596, 8–1–67, Cl. 137—81.5.

Bottorff, Richard D. Adjustable game target mast apparatus. 3,341,197, 9–12–67, Cl. 273—1.5.

Bottum, Edward W., and F. H. Roekwell, to Refrigeration Research Inc. Method of manufacture of a suction accumulator. 3,344,506, 10–3–67, Cl. 29—407.

Boucek, Miroslav: *See*—
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Bouchard, Arthur J., D. E. Hawkinson, C. R. Carlson, and J. A. Jannenga, to Rota Forg Corp. Rotary forging machine or the like. 3,359,774, 12–26–67, Cl. 72—339.

Bouchard, Constant L., to Ford Motor Co. Engine intake manifold air driven compressor. 3,299,629, 1–24–67, Cl. 60—30.

Bouchard, George H., A. Tartakoff, and H. H. Homer, to Sylvania Electric Products, Inc. Electric lamp coating comprising agglomerates of silica coated with a pigment. 3,320,460, 5–16–67, Cl. 313—112.

Bouche, Walter J. Bench. 3,300,246, 1–24–67, Cl. 297—232.

Boucher, Gerard. Carpet jointing machine. 3,313,463, 4–11–67, Cl. 227—108.

Boucher, Henry Fils & Cie: *See*—
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Boucher, Paul H., to Henry Boucher Fils & Cie. Automatic plant pot filling machine. 3,337,986, 8–29–67, Cl. 47—1.

Boucher, Raymond, to Aqua-Flote Swimware Ltd. Inflatable life saving belt. 3,302,224, 2–7–67, Cl. 9—316.

Boucher, Wilfred M., to Johnson & Johnson. Surgical drape. 3,335,719, 8–15–67, Cl. 128—132.

Boucherle, Robert H.: *See*—
Mentzer, Everett K., and Boucherle. 3,331,604.

Bouchillon, Charles W., to The Bauer Bros. Co. Centrifugal cleaner. 3,347,372, 10–17–67, Cl. 209—211.

Boucraut, Michel, and I. Toth, to Institut de Recherches de la Siderurgie Francaise. Heat transfer apparatus. 3,299,947, 1–24–67, Cl. 165—104.

Boucraut, Michel, and I. Toth, to Institut de Recherches de la Siderurgie Francaise. Method and apparatus for roasting ores. 3,300,295, 1–24–67, Cl. 75—1.

Boucraut, Michel, and I. Toth, to Institut de Recherches de la Siderurgie Francaise. Heating device for heating a fluidized bed of pulverulent material. 3,343,584, 9–26–67, Cl. 158—4.

Boudakian, Max M.: *See*—
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Boudaklan, Max H., to Olin Mathieson Chemical Corp. Process for providing -2-fluoropyridine. 3,296,269, 1-3-67, Cl. 260—290.

Boudakian, Max M., and J. A. Zaslowsky, to Olin Mathieson Chemical Corp. Manufacture of 2-chloropyridine using photolytic light. 3,297,556, 1-10-67, Cl. 204—158.

Boudakian, Max M., and C. W. Kaufman, to Olin Mathieson Chemical Corp. Process for providing 2,4,6-trifluoropyrimidine. 3,314,955, 4-18-67, Cl. 260—251.

Boudakian, Max M., and G. H. Hofmann, to Olin Mathieson Chemical Corp. 2-bromo-2-chloro-1,1-difluorocyclopropane. 3,349,136, 10-24-67, Cl. 260—648.

Boudiak, Jean-Pierre: *See*—
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Boudot, William D., and R. W. Guertin, to Dover Corp. Automatic dispensing nozzles. 3,341,075, 9-12-67, Cl. 222—70.

Boudreau, Alban M., to Hedstrom-Union Co. Convertible and foldable baby vehicles. 3,330,575, 7-11-67, Cl. 280—36.

Bouet, Bernard, to Ejectorer S.A. Pressure dispensing device for fluid material. 3,335,913, 8-15-67, Cl. 222—95.

Boughner, Daniel T.: *See*—
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Boughner, Lawrence G., and G. L. Poulos, to Rockwell-Standard Corp. Vehicle leaf springs. 3,305,231, 2-21-67, 267—52.

Boughrum, Richard L., and R. F. Wills, to Bell Telephone Laboratories Inc. Single line printout reader for computer sheets. 3,307,762, 3-7-67, Cl. 226—89.

Boughton, John H., to T. T. Boughton & Sons Ltd. Maximum safe load indicators for cranes. 3,344,934, 10-3-67, Cl. 212—55.

Boughton, John H., to T. T. Boughton & Sons Ltd. Maximum safe load indicators for cranes. 3,357,571, 12-12-67, Cl. 212—39.

Boughton, Ohn W., to American Optical Co. Variable interpupillary distance binocular microscope with focus compensation. 3,309,161, 3-14-67, Cl. 350—35.

Boughton, T. T., & Sons Ltd.: *See*—
Boughton, John H. 3,344,934.
Boughton, John H. 3,357,571.

Bougle, Clifford P., to Milprint, Inc. Wrapping material having a wax-type coating with spaced protruding particles. 3,340,089, 9-5-67, Cl. 117—76.

Bougle, Jean, to Compagnie Generale de Radiologie. Plural X-ray tube power supply having pulse means for controlling the conduction of said tubes. 3,333,104, 7-25-67, Cl. 250—94.

Bougle, Jean, to Compagnie Generale de Radiologie. Multiplex optical system with selective image position control. 3,337,685, 8-22-67, Cl. 178—7.88.

Bouillenne-Walrand, Marie A. J., F. C. M. J. d'Ogny, G. Wetroff, and J. E. Khaladji, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. 2,4,5-trichlorophenol reaction products for the treatment of seeds and plants. 3,317,374, 5-2-67, Cl. 167—38.

Bouillenne-Walrand, Marie A. J., G. Wetroff, and J. E. Khaladji, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. 2,4,5-trichlorophenol-lower-alkylamine reaction products as skin germicides. 3,342,675, 9-19-67, Cl. 167—58.

Bouklidis, Nicholas A., to Dynamic Industrial, Inc. Fertilizing metallurgical slag with nitrogen salts for agglomeration and powdering resistance. 3,303,016, 2-7-67, Cl. 71—62.

Bouklidis, Nicholas A., to Dynamic Industrials, Inc. Metallurgical liming slag. 3,328,160, 6-27-67, Cl. 71—62.

Boulador, Gabriel, and P. Zuppiger, to The Battelle Development Corp. Transport apparatus. 3,352,250, 11-14-67, Cl. 104—23.

Boulais, Jean E. P., L. G. Desrochers, W. G. Richardson, and R. A. Tanguay, to Canadian Industries Ltd. Hot bearing alarm apparatus. 3,310,983, 3-28-67, Cl. 73—358.

Boulanger, Daniel, to Societe Pratic-Buro. Adjustable holder for filing cards and the like. 3,309,158, 3-14-67, Cl. 312—205.

Bould, Fred: *See*—
Baker, James, Bould, and Schürr. 3,315,045.

Boulet, Georges, to Société à responsibilité limitée: Recherches Etudes Production R.E.P. Hydraulic pumps and motors with multiple cylinders of the barrel or swash-plate type. 3,332,356, 7-25-67, Cl. 103—162.

Bouley, Jean, Pushing and driving attachment for tractor. 3,336,041, 8-15-67, Cl. 280—43.23.

Boulger, Edward W.: *See*—
Rooney, John F. and Boulger. 3,346,531.

Bouligny, R. H., Inc.: *See*—
Rowe, Oliver R., and Dixon. 3,356,163.

Boulris, Roland F.: *See*—
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Boulton Paul Aircraft Ltd.: *See*—
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North, John D. 3,356,037.

Boulton, William, Ltd.: *See*—
Podmore, Henry L. 3,356,302.

Bouman, Geert H., to Honeywell Inc. Electrical apparatus. 3,299,257, 1-17-67, Cl. 235—151.34.

Bouman, Geert H., to Honeywell Inc. Logarithmic digital process controller. 3,310,663, 3-21-67, Cl. 235—151.1.

Bounden, John E., to United Kingdom Atomic Energy Authority. Neutron generator tube having a sealed-in gas replenisher. 3,344,299, 9-26-67, Cl. 313—61.

Bounds, Billy E., and L. F. Matthies, to Thiokol Chemical Corp. Incendiary device. 3,296,967, 1-10-67, Cl. 102—6.

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Bour, Thomas C., to Pittsburgh Plate Glass Co. Method and apparatus for improving homogeneity of viscous liquids. 3,331,673, 7-18-67, Cl. 65—130.

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Bowman, Thomas B., and M. R. Kreider, to Lebanon Paper Box Mfg. Co., Inc. Merchandise cartons. 3,305,079, 2–21–67, Cl. 206—45.31.

Bowman, Thomas E., and P. B. Kennedy, to United States of America, Atomic Energy Commission. Back-streaming control in a diffusion pump. 3,353,742, 11–21–67, Cl. 230—101.

Bowman-Shaw, George N., to Lancers Machinery Ltd. Mast extension mechanism for an industrial truck. 3,306,481, 2–28–67, Cl. 214—670.

Bowman-Shaw, George N. Means for coupling loads to lifting means. 3,338,436, 8–29–67, Cl. 214—75.

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Bown, Delos E., and R. I. McDougall, to Esso Research and Engineering Co. Novel phenolic phosphorus stabilizers for polyolefins. 3,297,631, 1–10–67, Cl. 260—45.95.

Bown, Ronald A. Collapsible tray assembly for vehicle seats. 3,335,679, 8–15–67, Cl. 108—44.

Bowness, Colin, to Raytheon Co. Liquid cooled solid state laser. 3,339,150, 8–29–67, Cl. 331—94.5.

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Bowyer, James M., Jr., and W. V. Carter, to General Dynamics Corp. Base drag reduction device. 3,358,947, 12–19–67, Cl. 244—73.

Box, Theodor. Bottle carrying and stacking case. 3,349,943, 10–31–67, Cl. 220—21.

Box, William A., to United States Steel Corp. Portable deck. 3,301,149, 1–31–67, Cl. 94—13.

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Boxer, George E., to Merck & Co., Inc. Purine 3-deoxynucleosides. 3,346,560, 10–10–67, Cl. 260—211.5.

Boxer, George E., and R. F. Nutt, to Merck & Co., Inc. Pyrimidine 3-deoxynucleosides. 3,346,561, 10–10–67, Cl. 260—211.5.

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Boxrud, Phillip E. Soil sampling device and means for mounting the same on a vehicle. 3,331,249, 7–18–67, Cl. 73—421.

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Boyajian, Myron J., to Allis-Chalmers Mfg. Co. Electric motor speed control. 3,308,364, 3–7–67, Cl. 318—358.

Boyajian, Myron J., to Allis-Chalmers Mfg. Co. Anticlog device for engine radiators. 3,344,854, 10–3–67, Cl. 165—119.

Boyajian, Setrak K. Envelopes and the like with remoistenable adhesive comprising polyvinyl alcohol. Re. 26,142, 1–10–67, Cl. 117—44.

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Boyce, Clive B. C., to Shell Oil Co. Ethers useful as molluscicides and piscicides. 3,349,102, 10–24–67, Cl. 260—347.8.

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Boyd, Alfred K., to Texas Instruments Inc. Selective printing assembly having printing surfaces at different levels. 3,318,430, 5–9–67, Cl. 197—18

Boyd, Charles A., and H. Kartluke, to United States of America, Atomic Energy Commission. Apparatus and method for acoustic instrumentation. 3,320,808, 5–23–67, Cl. 73—339.

Boyd, Charles A., and P. G. Luckhardt, to Aeroprojects Inc. Accelerating particles to high velocities. 3,357,306, 12–12–67, Cl. 89—8.

Boyd, Clarence. Method and device for exhaust gas purification. 3,306,034, 2–28–67, Cl. 60—30.

Boyd, Clinton A., H. J. Venema, and D. H. Ward, to Borg-Warner Corp. System with electrical utilization device having main energization conductors over which information signals are also transferred. 3,340,500, 9–5–67, Cl. 340—18.

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Boyd, John A. and D. E. 3,319,435.

Boyd, Edward S., V. L. Darby, and E. E. Hatter, to North American Aviation Inc. Welded joint and apparatus and method for making same. 3,301,993, 1–31–67, Cl. 219—117.

Boyd, Gary D., and S. P. S. Porto, to Bell Telephone Laboratories, Inc. Phase-matched Raman radiation amplifier and oscillator. 3,300,653, 1–24–67, Cl. 307—88.3.

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Boyd, Harvey W., J. I. Burleigh, and J. L. Roberson. Automatic oil well pump control. 3,306,210, 2–28–67, Cl. 103—25.

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Boyd, John A. and D. E. Method and apparatus for incinerating refuse material. 3,307,507, 3–7–67, Cl. 110—8.

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Boyd, Joseph J., to Atlantic Steel Co. Translation of high-temperature, high-speed strips of material. 3,334,889, 8–8–67, Cl. 271—3.

Boyd, Joseph J. Hydro-gaseous bearing. 3,352,607, 11–14–67, Cl. 308—9.

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Boyd, Thomas, to Monsanto Co. Anionic polymerization processes. 3,330,785, 7–11–67, Cl. 260—2.5.

Boyd, Wayne T. Shield for welders' helmets. 3,308,477, 3–14–67, Cl. 2—8.

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Boyer, John L., to International Rectifier Corp. Compression bonded semiconductor device. 3,328,650, 6–27–67, Cl. 317—234.

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Boyer, Martin. Readily cleanable hand rake and self cleaning trailer rake. 3,335,557, 8–15–67, Cl. 56—393.

Boyer, Martin. Rail locking track structure. 3,356,209, 12–5–67, Cl. 238—265.

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Boyer, Nolan D., K. W. Otto, and Y. M. Trehu, to E. I. du Pont de Nemours and Co. Process for the extrusion of improved closed-cell foams. 3,327,031, 6–20–67, Cl. 264—53.

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Boyer, Thomas W., R. C. Chang, and E. L. Ries, to American Synthetic Rubber Corp. Liquid carboxylated polymers and method of preparing the same. 3,346,631, 10–10–67, Cl. 260—523.

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Boykin, Otis, F. Method of making a thin film capacitor, 3,348,971, 10–24–67, Cl. 117—215.

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Boyle, Eugene E. Saturable inductor radio frequency tuning device. 3,327,258, 6–20–67, Cl. 334—12.

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Boyle, Robert F., to Pneumo Dynamics Corp. Rotary tape valve. 3,334,656, 8–8–67, Cl. 137—596.

Boyle, Willard S., and D. F. Nelson, to Bell Telephone Laboratories, Inc. End pumped optical maser. 3,354,404, 11–21–67, Cl. 331—94.5.

Boylen, Clarence B., to Russell Hosiery Mills, Inc. Method and means for turning tubular articles at a circular knitting machine. 3,296,838, 1–10–67, Cl. 66—149.

Boyles, Elmo N. Guide means for disc brake friction pads. 3,348,636, 10–24–67, Cl. 188—73.

Boyles, Fred O. Automatic device for casting simulated birds. 3,303,820, 2-14-67, Cl. 119—15.6.

Boyles, Robert L., to General Electric Co. Toothbrush power handle assembly. 3,300,664, 1-24-67, Cl. 310—50.

Boyles, Robert L., to General Electric Co. Hand-held battery-operated device. 3,329,880, 7-4-67, Cl. 320—2.

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Boys, Fay L., to Sinclair Research, Inc. Method of analyzing soil gases. 3,336,792, 8-22-67, Cl. 73—23.1.

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Boyte, James M. Apparatus for demonstrating the variation of the trigonometric functions in a two dimensional system. 3,339,654, 12-26-67, Cl. 35—34.

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Bozek, John S., to Continental Can Co., Inc. Container assembly. 3,337,085, 8-22-67, Cl. 220—54.

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Bozek, John W., to The Rosaen Filter Co. Variable capacity filter devices. 3,334,748, 8-8-67, Cl. 210—132.

Bozek, John W., and D. R. Royer, to The Rosaen Filter Co. Filter element. 3,326,382, 6-20-67, Cl. 210—356.

Bozeman, Paul P., Jr., and R. A. Woodle, to Texaco Inc. Hydrocarbon solvent refining process. 3,306,849, 2-28-67, Cl. 208—314.

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Braccini, Alfonso A., to Whittaker Corp. Space frame structures. 3,323,820, 6-6-67, Cl. 287—189.36.

Brace, Lloyd, Jr., to United Shoe Machinery Corp. Package of sealing material. 3,337,040, 8-22-67, Cl. 206—56.

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Bracey, Frederick J., Jr., to Mobil Oil Co. Process for bonding thermoplastic materials. 3,303,255, 2-7-67, Cl. 264—248.

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Bracht, Lloyd J., K. L. Devall, and H. J. Krause, to LTV Electrosystems, Inc. Molded resistor and method of fabricating same. 3,355,532, 11-28-67, Cl. 264—234.

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Bracht, Paul; deceased by H. Bracht, sole heir, to Inland Steel Co. Method of making a sidewall for a shipping container. 3,315,576, 4-25-67, Cl. 93—55.1.

Bracht, Paul; deceased by M. H. Bracht, sole heir, to Inland Steel Co. Stackable fiber drum. 3,315,865, 4-25-67, Cl. 229—5.6.

Brack, Alfred: *See*—
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Brack, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Naphtholactam reaction products and process for preparation of the same. 3,299,092, 1-17-67, Cl. 260—313.1.

Brack, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Reaction product of naphthaolactanes and indole derivatives as dyestuffs. 3,320,279, 5-16-67, Cl. 260—326.15.

Brack, Alfred, and D. Kutzschbach, 1-hydrocarbon-2-tertiary amino carbocyclic aryl benz-[c,d]-indoles. 3,347,865, 10-17-67, Cl. 260—313.1.

Brack, Alfred, and R. Raue, to Farbenfabriken Bayer Aktiengesellschaft. Novel indole cyanine dyestuffs. 3,351,600, 11-7-67, Cl. 260—288.

Brack, Hans, to Pittsburgh Plate Glass Co. Joint locking means. 3,336,719, 8-22-67, Cl. 52—732.

Brack, Karl, to Hercules Inc. Coating composition prepared from polyesters of epoxidized aliphatic acids and organic polyisocyanates. 3,328,356, 6-27-67, Cl. 260—77.5.

Brack, Karl, to Hercules Inc. Polyhydroxy ethers. 3,335,191, 8-8-67, Cl. 260—613.

Brack, Karl, to Hercules Inc. Phosphorus-containing compositions and use thereof in the preparation of polyurethane foams and coatings. 3,345,310, 10-3-67, Cl. 260—2.5.

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Brackbill, Warren H., and C. A. Smith, to Sperry Rand Corp. Manure spreader. 3,298,695, 1-17-67, Cl. 275—8.

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Brackett, Clyde R., to Burroughs Corp. Universal diode matrix package with improved fuse means. 3,335,328, 8-8-67, Cl. 317—101.

Brackett, Frederick S., J. C. Leifer, D. L. Scott, and R. N. Stock, to American Machine and Foundry Co. Bowling pin detecting apparatus. 3,307,848, 3-7-67, Cl. 273—54.

Brackett, Lawrence W., to Wood Electric Corp. Multipole circuit breaker with interconnected toggle locks and contact members. 3,329,912, 7-4-67, Cl. 335—8.

Brackett, Lawrence W., to Wood Electric Corp. Thermal switch with bimetallic follower for increasing contact wiping pressure. 3,331,934, 7-18-67, Cl. 200—113.

Brackett, Ralph C., to Fruehauf Corp. Pallet container. 3,344,831, 10-3-67, Cl. 150—.5.

Brackett, Robert W. Tweezer construction. 3,306,139, 2-28-67, Cl. 81—43.

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Anderson, William S. 3,339,712.
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Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Azote et des Produits Chimiques. Purification of acetylene from gaseous mixtures. 3,299,161, 1-17-67, Cl. 260—679.

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Bradbury, Frank R., and J. A. Jarvis, to Imperial Chemical Industries Ltd. Process for the removal of terpyridyl impurities from bipyridyls. 3,296,273, 1-3-67, Cl. 260—296.

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Braden, William B., Jr., and J. T. Carlin, to Texaco Inc. Method of treating clay-containing formations with guanidine salt solution. 3,360,043, 12-26-67, Cl. 166—9.

Brader, Allen C. Storing and dispensing apparatus. 3,297,372, 1-10-67, Cl. 312—45.

Brader, Allen C. Orthodontic arch wire edgewise brackets. 3,327,393, 6-27-67, Cl. 32—14.

Brader, Kenneth K., and H. D. Marshall, to Western Electric Co., Inc. Methods of and apparatus for series-parallel testing of electrical components. 3,343,077, 9-19-67, Cl. 324—28.

Brader, Walter H., Jr., to Jefferson Chemical Co., Inc. Synthesis of C-alkyl-triethylenediamine. 3,342,820, 9-19-67, Cl. 260—268.

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Brader, Wilbur T., Jr., and T. E. Bradley, to FMC Corp. Flexible cellulosic articles having ultra-violet light shielding properties and method of producing them. 3,309,218, 3-14-67, Cl. 117—33.3.

Bradfield, Geoffrey, to National Research Development Corp. Sensitive weighing apparatus. 3,332,506, 7-25-67, Cl. 177—210.

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Bradford, Francis H., to Grove Valve and Regulator Co. Fluid pressure regulator having a guided pressure responsive member. 3,348,573, 10-24-67, Cl. 137—505.

Bradford, Guy E., to Systems Engineering Laboratories, Inc. Isolating arrangement for gating circuit. 3,346,698, 10-10-67, Cl. 179—15.

Bradford, James L.: *See*—
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Bradford, James L., and R. I. Wagner, to American Potash & Chemical Corp. Borazene oxide derivative polymers and preparation thereof. 3,341,474, 9-12-67, Cl. 260—2.

Bradford, James R.: *See*—
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Bradford, Purdy, to Swift & Co. Method and apparatus for separating fat and solids from meat scraps. 3,346,393, 10-10-67, Cl. 99—108.

Bradford, Rex C., M. H. Cook, and H. R. Kelsof, to International Business Machines Corp. Method of making a multitrack magnetic transducer head. 3,353,261, 11-21-67, Cl. 29—603.

Bradford, Robert S., and P. D. Leeke, to Minnesota Mining and Mfg. Co. Motor control circuit with compensation for dropout of control signals. 3,356,921, 12-5-67, Cl. 318—318.

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Bradley, Elihu F., R. I. Jaffe, D. N. Williams, and E. S. Bartlett, to United Aircraft Corp. High temperature columbium base alloys. 3,296,038, 1-3-67, Cl. 148—11.5.

Bradley, Elihu F., R. I. Jaffee, D. N. Williams, and E. S. Bartlett, to United Aircraft Corp. High temperature strength columbium base alloys. 3,297,438, 1-10-67, Cl. 75—174.

Bradley, Elihu F., E. S. Bartlett, H. R. Ogden, and R. I. Jaffee, to United Aircraft Corp. Hafnium-containing columbium-base alloys. 3,341,370, 9-12-67, Cl. 148—11.5.

Bradley, Henry E. M. Apparatus for transmitting information particularly for use in the operation of a self-service store. 3,326,325, 6-20-67, Cl. 186—1.

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Bradley, Kenneth B., to The Dow Chemical Co. Dihalophenol separation. 3,336,400, 8-15-67, Cl. 260—623.

Bradley, Kenneth B., and L. E. Record, to The Dow Chemical Co. Semi-continuous process for preparing 4,4'-sulfonyldiphenol. 3,297,766, 1-10-67, Cl. 260—607.

Bradley, Mary A. L. Disposable dress shield. 3,345,643, 10-10-67, Cl. 2—53.

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Bradley, Paul E. Dissolving device for multiple projectors. 3,358,558, 12-19-67, Cl. 88—28.

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Bradmiller, Richard W., and H. P. Bruce, to Martin-Marietta Corp. Sinewave oscillator with automatic frequency control. 3,303,435, 2-7-67, Cl. 331—113.

Bradshaw, Arthur, K. Lee, N. Swales, and P. W. Voyle, to United Shoe Machinery Corp. Mulling process. 3,354,486, 11-28-67, Cl. 12—142.

Bradshaw, Edward W., Jr., to Thiokol Chemical Corp. Temperature controlled igniter. 3,324,656, 6-13-67, Cl. 60—39.82.

Bradshaw, Franklin C., and T. M. Smith, to Gould-National Batteries, Inc. Battery and charging circuit cartridge. 3,320,508, 5-16-67, Cl. 320—2.

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Bradshaw, Robert S., to Burroughs Corp. Mask and substrate alignment apparatus. 3,312,190, 4-4-67, Cl. 118—49.1.

Bradshaw, Rowland A. Livestock enclosure. 3,302,616, 2-7-67, Cl. 119—21.

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Bradstock, Robert B., and H. A. Olson, to General Electric Co. Power coupling mechanism. 3,322,913, 5-30-67, Cl. 200—61.42.

Bradt, Gordon E., to Bell & Howell Co. Transport system for limp magnetic tapes. 3,334,831, 8-8-67, Cl. 242—55.13.

Bradt, Gordon E., N. R. Kubnick, and G. B. Shields, to Bell & Howell Co. Reversible vacuum hub tape reel. 3,326,491, 6-20-67, Cl. 242—74.

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Brady, George A., and H. H. Griffiths, to United States of America, Interior. Method of separating liquid-solid suspensions into individual phase. 3,305,091, 2-21-67, Cl. 210—65.

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Brady, Joshua. Continuous shake strip and method of manufacture. 3,333,384. 8–1–67, Cl. 52—557.

Brady, Kenneth J., F. J. Dors, and A. S. Palermo. Heat exchanger. 3,314,245, 4–18–67, Cl. 62—100.

Brady, Lorman G., to Libbey-Owens-Ford Glass Co. Enclosure means in a glass sheet drawing apparatus. 3,326,657, 6–20–67, Cl. 65—198.

Brady, Lynn J., to CTS Corp. Electrical component substrate with cavities for anchoring lead wires therein. 3,346,774, 10–10–67, Cl. 317—101.

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Brady, Paul T., to Bell Telephone Laboratories, Inc. Speech level measuring apparatus. 3,346,694, 10–10–67, Cl. 179—1.

Brady, Paul T., to Bell Telephone Laboratories, Inc. Echo suppressor for communication system having transmission delay. 3,351,720, 11–7–67, Cl. 179—170.2.

Brady, Paul T., and G. K. Helder, to Bell Telephone Laboratories, Inc. Echo suppressor with improved break-in circuitry. 3,305,646 2–21–67, Cl. 179—170.6.

Brady, Richard F., to Brady Air Controls, Inc. Air retaining means for water tanks. 3,301,275, 1–31–67, Cl. 138—31.

Brady, Richard L., and B. R. Gandler, to International Business Machines Corp. Recirculating memory device with gated inputs. 3,311,891, 3–28–67, Cl. 340—172.5.

Brady, Robert M., C. W. Hawkey, and J. E. Kirby, to Westinghouse Electric Corp. Apparatus for fabricating filament support loops. 3,342,224, 9–19–67, Cl. 140—71.5.

Brady, Sam A., to Dow Corning Corp. Method for hydrolyzing alkoxysilanes. 3,304,318, 2–14–67, Cl. 260—448.2.

Brady, Sam A., to Dow Corning Corp. Solventless resin preparation of silicone-epoxy resins. 3,317,443, 5–2–67, Cl. 260—18.

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Hauptschein, Murray, and Braid. 3,360,568.

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Bramson, Clive H. Smoker's lighter reflector means. 3,344,266, 9–26–67, Cl. 240—11.

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Brand, Lawrence H. Ice cube trays. 3,317,177, 5–2–67, Cl. 249—119.

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Brandes, Roy H., to General Motors Corp. Gas pressure control means for a hot gas engine. 3,355,881, 12–5–67, Cl. 60—24.

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Brandon, Clarence W., 12½% to O. B. Brandon, 5% to H. B. Jacobson, and 50% to N. A. Hardin, C. H. Newton and H. H. Wright, jointly. Energy wave fracturing of formations. 3,302,720, 2–7–67, Cl. 166—42.

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Brandon, Theodore A. Discharge mechanisms for lumber accumulators. 3,314,524, 4–18–67, Cl. 198—34.

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Brandt, Edmund D., and D. D. Varner, to Western Electric Co., Inc. Through-connectors for circuit boards and method of applying same. 3,354,260, 11–21–67, Cl. 174—68.5.

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Brandt, Hans-Walther, B. Schleppinghoff, W. Bayer, F. Bitners, and E. Meier, to Farbenfabriken Bayer Aktiengesellschaft. Process for separating C_5-hydrocarbon mixtures, containing paraffinic, monoolefinic and diolefinic C_5-hydrocarbons by distillation with N-methylpyrrolidone. 3,320,138, 5–16–67, Cl. 203—58.

Brandt, Hans-Walther, and B. Engelhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for working up C_4-hydrocarbon mixture containing n-but-1-ene, 3,322,845, 5–30–67, Cl. 260—677.

Brandt, Hans-Walther, F. Bitners, and E. Meier, to Farbenfabriken Bayer Aktiengesellschaft. Extractive distillation in combination with multistage evaporation. 3,338,799, 8–29–67, Cl. 203—23.

Brandt, Harry, to Chevron Research Co. Method and apparatus for injecting fluids into earth formations. 3,318,381, 5–9–67, Cl. 166—35.

Brandt, Herbert. Rotary regenerative heat exchangers. 3,327,770, 6–27–67, Cl. 165—9.

Brandt, Herbert, and H. Sandmann. Rotary valve regenerative heat exchanger seal. 3,321,010, 5–23–67, Cl. 165—4.

Brandt, Herbert, and H. Sandmann. Regenerative heat exchangers. 3,323,579, 6–6–67, Cl. 165—4.

Brandt, Herbert, and H. Sandmann. Rotary regenerative heat exchangers. 3,353,588, 11–21–67, Cl. 165—4.

Brandt, Jobst, to United States of America, Atomic Energy Commission. Alignment and support hydraulic jack. 3,317,186, 5–2–67, Cl. 254—93.

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Brandt, Ralph H., and J. P. Schoentgen. Projector apparatus. 3,301,128, 1–31–67, Cl. 88—28.

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Brandtberg, Kai M., to Brinch & Spehr Aktieselskabet. Closure cap. 3,301,425, 1–31–67, Cl. 215—45.

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Brandtszteter, Boleslaw, to Solid State Engineering Co. Icing condition detection apparatus. 3,305,851, 2–21–67, Cl. 340—234.

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Brane, Earl P., to Sta-Rite Industries, Inc. Compact water softening valve structure. 3,348,574, 10–24–67, Cl. 137—599.1.

Braner, Howard T., to The National Cash Register Co. Process for binding together coated manifold sheets. 3,320,109, 5–16–67, Cl. 156—252.

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Branick, Charles E. Spring compression tool. 3,341,175, 9–12–67, Cl. 254—10.5.

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Braniecki, Edward L., Jr., to Radio Corp. of America. Semiconductor devices with layer of silicon monoxide and germanium mixture and methods of fabricating them. 3,323,027, 5–30–67, Cl. 317—234.

Branin, Phyllis B., to Radio Corp. of America. Method of making phosphor screens. 3,313,643, 4–11–67, Cl. 117—33.5.

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Branscum, Tony E., and E. N. Barnes, to Phillips Petroleum Co. Container and method of making the same. 3,306,200, 2-28-67, Cl. 102—24.

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Brastad, William A., to General Mills, Inc. Bread making process. 3,332,371, 7-25-67, Cl. 107—54.

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Brauer, Hans, and A. Goeke, to Th. Kieserling and Albrecht. Apparatus for testing tubes. 3,350,921, 11-7-67, Cl. 73—49.6.

Brauer, Hans, and H. Lorenz, to Th. Kieserling and Albrecht. Apparatus for shaving elongated workpieces of circular cross section. 3,350,965, 11-7-67, Cl. 82—20.

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Brault, James W., to Princeton Applied Research Corp. Frequency responsive network. 3,296,464, 1-3-67, Cl. 307—88.5.

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Fitch, Frederick T., and Braun. 3,331,785.

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Braun, Arthur R., to Seaquist Valve Co. Aerosal valve actuator with means to prevent its accidental actuation. 3,325,054, 6-13-67, Cl. 222—39.

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Braun, Willy, and R. Mecke, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Linear-trans-6-hydroxy-quinacridones. 3,336,312, 8-15-67, Cl. 260—279.

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Braus, Harry, and F. D. Waas, to National Distillers and Chemical Corp. α,α′-bis(lauryl-thiopropionate)-p-xylene. 3,330,855, 7-11-67, Cl. 260—470.

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Bresson, Clarence R., to Phillips Petroleum Co. 2-aminoalkanethiols. 3,351,664, 11-7-67, Cl. 260—584.

Bresson, Richard J., and R. G. Elton, to Eastman Kodak Co. Shutter exposure setting mechanism for a camera. 3,319,554, 5-16-67, Cl. 95—53.

Bret, Georges: *See*—
Mayer, Guy, and Bret. 3,346,741.

Bret, Georges, and F. Gires, to CSF-Compagnie Generale de Telegraphie Sans Fil. Stable traveling wave amplifier for pulsed lasers. 3,333,206, 7-25-67, Cl. 330—4.3.

Bret, Pierre. Fluid-dispensing systems. 3,360,168, 12-26-67, Cl. 222—335.

Breternitz, Charles E., A. I. Dale, and H. F. Sloan. Impact compensating means for belt conveyors. 3,319,767, 5-16-67, Cl. 198—52.

Bretford Mfg., Inc.: *See*—
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Breton, Ernest J., to E. I. du Pont de Nemours, and Co. Corrosion-inhibited sintered composite of a metal matrix with occluded cement. 3,332,751, 7-25-67, Cl. 29—182.5.

Bretschneider, Gunther: *See*—
Dusing, Gerhard, Bretschneider, Kloepfer, Sperr, and Schmidt. 3,338,669.

Bretschneider, Gunther, and F. Sperr, to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler. Process for solubilizing vanadium values. 3,300,276, 1-24-67, Cl 23—15.

Bretschneider, Hermann, K. Hohenlohe-Oehringen, and A. Rhomberg, to Hoffman-La Roche Inc. 3-acetyl-cinchoninic acid compounds. 3,311,632, 3-28-67, Cl. 260—287.

Brett, Harry E. Halyard securing means. 3,343,514, 9-26-67, Cl. 114—108.

Brett, Nicholas W., and R. R. Crabtree, to United States of America, Army. Cable munition. 3,320,881, 5-23-67, Cl. 102—23.

Brette, Yves-Jean F., to Compagnie des Machines Bull (Societe Anonyme). Matrix memory device. 3,319,234, 5-9-67, Cl. 340—174.

Brettell, George A., to Ampex Corp. Pneumatic tape drive system. 3,329,364, 7-4-67, Cl. 242—55.12.

Bretti, Franco, to Olivetti, Ing., C., & C. S.p.A. Printer having type drum with blank area and hammer on movable carriage. 3,331,316, 7-18-67, Cl. 101—93.

Bretton, Georges L. Fishing reels provided with a hood. 3,351,301, 11-7-67, Cl. 242—84.21.

Bretz, Karl-Werner: *See*—
Keller, Heinrich, and Bretz. 3,307,493.

Breuer, Heinz. Wire-bending machine. 3,296,851, 1-10-67, Cl. 72—383.

Breuer, Heinz. Device for testing the tensile strength of chains or the like. 3,344,661, 10-3-67, Cl. 73—95.5.

Breuer, Oswald: *See*—
Heyer, Willy, and Breuer. 3,342,529.

Breuer, Richard G.: *See*—
Titus, Leslie, Thornberry, and Breuer. 3,351,428.

Breuers, Theo P. C., and P. A. Friesen, to Chemische Fabriek L. Van Der Grinten N. V. Process and apparatus for drying damp sheet material. 3,350,788, 11-7-67, Cl. 34—23.

Breuers, Wilhelm, G. Kuth, E.-G. Bock, and W. Tilk, to Bunawerke Huls Gesellschaft mit Beschränkter Haftung. Method of improving the color of rubber. 3,310,541, 3-21-67, Cl. 260—82.1.

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Mejean, Jacques G., De Noia, and Breunich. 3,335,244.

Breunich, Theodore R., to Universal Oil Products Co. Differential pressure switch. 3,342,959, 9-19-67, Cl. 200—83.

Breunig, Anton, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Stacking table for continuously operating sheet feeders. 3,302,947, 2-7-67, Cl. 271—62.

Breuning, Ernst. Broken roving collectors for flyer spinning frames. 3,306,024, 2-28-67, Cl. 57—34.5.

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De Meiss, Rene. 3,340,771.
Dufour, Georges. 3,348,485.
Dürler, Jacques. 3,306,021.
Maillard, Bernard. 3,326,085.
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Ramseyer, Robert. 3,306,166.
Ramseyer, Robert. 3,306,167.
Vickers, Roy G. 3,349,451.
Vignon, Louis. 3,310,685.

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Brevik, Elmer L., to Chemical Milling International Corp. Method and apparatus for etching metal by immersion. 3,320,105, 5-16-67, Cl. 156—2.

Brewer, Alan W., to Mast Development Co. Apparatus for measuring trace constituents. 3,329,599, 7-4-67, Cl. 204—195.

Brewer, Cecil L., to Beloit Corp. Mist control on air knife coaters. 3,341,351, 9-12-67, Cl. 117—64.

Brewer, David R. Apparatus for measuring tankfuls and counting the same. 3,350,937, 11-7-67, Cl. 73—224.

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Brewer, George E. F., G. L. Burnside, and A. H. Turner, to Ford Motor Co. Method of electrocoating with variation of heat sealing. 3,355,345, 11-28-67, Cl. 156—380.

Brewer, George E. F., and G. L. Burnside, to Ford Motor Co. Method for adjusting the bath composition in a continuous electrodeposition process. 3,355,373, 11-28-67, Cl. 204—181.

Brewer, Harry, and O. F. Cutright. Combined walking cane and stool. 3,310,340, 3-21-67, Cl. 297—16.

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Brewer, Lee M., and R. P. Rohde, to General Motors Corp. Bearing and sealing means. 3,343,782, 9-26-67, Cl. 230—157.

Brewer, Lee M., and R. P. Rohde, to General Motors Corp. Bearing and sealing means. 3,356,292, 12-5-67, Cl. 230—157.

Brewer, Nathaniel, to Fischer & Porter Co. Open channel flowmeter. 3,342,069, 9-19-67, Cl. 73—215.

Brewer, Richard D., and B. G. Radin, to The Ford Motor Co. Electrical speedometer with electrical energy regulating means. 3,309,609, 3-14-67, Cl. 324—70.

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Brewer, Sherman T., to Bell Telephone Laboratoies, Inc. Repeater testing. 3,325,605, 6-13-67, Cl. 179—175.31.

Brewer, Sherman T., to Bell Telephone Laboratories, Inc. Equipment for laying repeaters connected in ocean communication cable. 3,330,123, 7-11-67, Cl. 61—72.3.

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Brewin, Grant H., and H. P. Scott, to Proctor Hydro-Set Co. System for removing stockings from forms. 3,355,074, 11-28-67, Cl. 223—112.

Brewster, Franklin C., to Motorola, Inc. Polarity responsive battery charges. 3,307,097, 2-28-67, Cl. 320—25.

Brewster, George F. Vacuum chuck means and method of holding material. 3,321,201, 5-23-67, Cl. 269—21.

Brewster, Gordon F., to Bausch & Lomb Inc. Glass compositions. 3,311,480, 3-28-67, Cl. 106—54.

Brewster, Jerome B., to Bailey Meter Co. Square root extracting network. 3,328,569, 6-27-67, Cl. 235—193.5.

Brewster, Jerome B., to Bailey Meter Co. Solid state function generator. 3,355,671, 11-28-67, Cl. 330—30.

Brewster, William R. Portable self-contained tank aerator. 3,309,067, 3-14-67, Cl. 261—30.

Brewster, William R. Bait tank aerator. 3,333,834, 8-1-67, Cl. 261—84.

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Brezinski, Julius J., and H. M. Rife, to Union Carbide Corp. Aqueous emulsions of vinyl acetate-vinyl sulfonic acid copolymers, and method of preparation. 3,320,199, 5-16-67, Cl. 260—29.6.

Brezosky, Bernard J., to General Electric Co. Pivoted power unit for portable waste disposer. 3,302,894, 2-7-67, Cl. 241—46.

Brian, Arthur L. Protective rings for pipe coatings. 3,352,574, 11-14-67, Cl. 285—3.

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Briar, Herman P., and R. B. Hurley, to The Dow Chemical Co. Method for impregnating acrylonitrile polymer fibers to improve dyeability. 3,296,341, 1-3-67, Cl. 264—78.

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Brichard, Edgard, to Glaverbel. Vacuum metallisation arrangement for materials in sheet form. 3,321,092, 5-23-67, Cl. 214—6.

Brichard, Edgard, M. Lambert, and A. Mailcheff, to Glaverbel. Method and tank furnace for glass making. 3,316,078, 4-25-67, Cl. 65—134.

Brichard, Edgard, and E. Plumat. Process and apparatus for forming glass sheets on a molten metal bath. 3,318,671, 5-9-67, Cl. 65—65.

Brichard, Edgard, E. Plumat, and M. Duperroy, to Glaverbel. Process and apparatus for the homogenisation of molten glass in the chamber connecting the refining furnace to the working compartment. 3,350,187, 10-31-67, Cl. 65—134.

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Bricker, Gayle A., Jr., to Allegheny Ludlum Steel Corp. Strip centerline sensor and control. 3,323,699, 6-6-67, Cl. 226—15.

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Bricker, Richard W.: *See*—
Green, William L., and Bricker. 3,323,370.

Brickett, Sherman P., and F. E. Weeks, to General Electric Co. Quiet gear. 3,307,419, 3-7-67, Cl. 74—443.

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Licht, Lazar, Brickl, and Indergard. 3,342,393.

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Brickner, Lillian L., ½ to L. F. Silvers. Fastening device. 3,323,182, 6-6-67, Cl. 24—73.

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Brickson, Thomas B., to Kliklok Corp. Folding box machines. 3,299,614, 1-24-67, Cl. 53—376.

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Bridenstine, Orville J., to Phillips Petroleum Co. Nesting and stacking container. 3,351,229, 11-7-67, Cl. 220—97.

Bridevaux, Georges O. Alarm time-piece. 3,349,555, 10-31-67, Cl. 58—16.

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Bridge, William A., and D. J. Crawford, to The Dow Chemical Co. Automatic control system and method. 3,341,888, 9-19-67, Cl. 18—2.

Bridgeford, Douglas J., to Tee-Pak, Inc. Molded plastic article contalning polymer grafted filler or reinforcement. 3,318,826, 5-9-67, Cl. 260—17.4.

Bridgeford, Douglas J., to Tee-Pak, Inc. Preparation of xanthates by ion exchange. 3,330,820, 7-11-67, Cl. 60—218.

Bridgeford, Douglas J. Reinforced or coated paper produced by treatment of paper fibers with decausticized solution of a polymeric alcohol xanthate. 3,335,023, 8-8-67, Cl. 117—62.

Bridgeford, Douglas J., and D. M. Gallagher, to Tee-Pak, Inc. Preparation of solutions of ammonium polysaccharide xanthates. 3,336,144, 8-15-67, Cl. 106—164.

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Bridger, Robert F., L. J. McCabe, and A. L. Williams, to Mobil Oil Corp. Lubricants and fuels stabilized with antioxidants for high and low temperature conditions. 3,320,-165, 5-16-67, Cl. 252—49.6.

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Field, Sheldon B., and Bridges. 3,357,391.
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Bridges, Thomas N., Sr., to Lockheed Aircraft Corp. Sealant applying apparatus. 3,350,774, 11-7-67, Cl. 29—564.

Bridges, Vernon B. Moveably supported cut off saw. 3,330,175, 7-11-67, Cl. 83—201.

Bridges, William C. Self-drilling tie rod for concrete construction forms. 3,327,988, 6-27-67, Cl. 249—213.

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Bridwell, Harold C., and A. G. Wilder, to Esso Production Research Co. Liquid phase sintering process. 3,301,673, 1-31-67, Cl. 75—204.

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Brieger, Emmet F., to Schlumberger Technology Corp. Fluid ejection apparatus for well completion tools. 3,327,785, 6-27-67, Cl. 166—165.

Brieger, Emmet F., to Schlumberger Well Surveying Corp. Methods for well completion. 3,329,204, 7-4-67, Cl. 166—13.

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Briggs, Eugene C., to Master Consolidated, Inc. Aspirating nozzle assembly. 3,326,471, 6–20–67, Cl. 239—406.

Briggs, Eugene C., and R. Farkas, to Master Consolidated Inc. Oil burner apparatus. 3,316,955, 5–2–67, Cl. 158—4.

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Briggs, George R., to Radio Corp. of America. Magnetic shift register. 3,344,415, 9–26–67, Cl. 340—174.

Briggs, Jamalabo A. Dissecting board and head clamp. 3,318,597, 5–9–67, Cl. 269—328.

Briggs, James A., and C. F. Collett, to Imperial Chemical Industries Ltd. Bobbin winding. 3,356,312, 12–5–67, Cl. 242—164.

Briggs, James B., to Sargent Industries, Inc. Display system utilizing cathode ray tube deflection error compensating means. 3,341,735, 9–12–67, Cl. 315—27.

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Briggs, Peter R. A., to British Iron and Steel Research Association. Rolling mills. 3,342,047, 9–19–67, Cl. 72—8.

Briggs, Raymond W., and S. Jones, to Hughes Aircraft Co. IR background noise discriminator through elective time gates. 3,349,244, 10–24–67, Cl. 250—83.3.

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Briggs, Walton E., to National Research Corp. Leak detector and vacuum pumping station. 3,327,521, 6–27–67, Cl. 73—40.7.

Briggs, Walton E., to National Research Corp. Vacuum system inlet valve. 3,345,860, 10–10–67, Cl. 73—40.

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Magee, John S., Jr., Briggs, and Ciapetta. 3,325,247.
Sergeys, Francis J., Maher, Briggs, and McDaniel. 3,346,328.
Stover, William A., Warthen, and Briggs. 3,304,150.

Briggs, Warren S., W. A. Stover, and J. L. Warthen, to W. R. Grace & Co. Method of treating exhaust gases. 3,295,918, 1–3–67, Cl. 23—2.

Briggs, William A. Sun control device. 3,307,615, 3–7–67, Cl. 160—181.

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Brigham, George B. Connecting means for framed panels. 3,303,626, 2–14–67, Cl. 52—586.

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Mater, Charles E., West, and Brigham. 3,348,651.

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Bright, James A. Electric wave converter. 3,343,064, 9–19–67, Cl. 321—8.

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Bright, Willard M., M. Pader, and W. Wiesner, to Lever Brothers Co. Process of dehydrating vegetables. 3,295,995, 1–3–67, Cl. 99—204.

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Brightman, Barrie, to General Dynamics Corp. Recirculating delay line phase control system for use in producing a variable direction beam from a fixed transmitting array. 3,324,453, 6–6–67, Cl. 340—5.

Brightman, Barrie, P. K. Kavanaugh, and R. Scott, to Stromberg-Carlson Corp. Multiple module time division multiplex communication system utilizing high-low speed conversion. 3,311,706, 3–28–67, Cl. 179—15.

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Brignac, Edmond P., and R. T. Wright, to Monsanto Co. Nylon composition resistant to heat deterioration. 3,359,235, 12–19–67, Cl. 260—45.75.

Brigner, Eugene A., P. C. Wondra, and T. W. Middleton, to United States of America, Navy. Device for arresting moving vehicles. 3,314,285, 4–18–67, Cl. 73—167.

Brignola, Dominic J., to United Shoe Machinery Corp. Expansion fastener with dual threaded engagement means. 3,348,444, 10–24–67. Cl. 85—70.

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Briley, Bruce E., to Automatic Electric Laboratories, Inc. Variable time-delay circuit employing transistor utilizing minority-carrier-storage effect and modulating AC signal-bias at collector for determining delay duration. 3,317,755, 5–2–67, Cl. 307—88.5.

Briley, Bruce E., to Automatic Electric Laboratories, Inc. Arrangements of one-transistor bistable circuits. 3,348,066, 10–17–67, Cl. 307—88.5.

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Brill, Alfred P., Jr. Nursery tag mounting device. 3,337,932, 8–29–67, Cl. 29—21.1.

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Brill, Harry M. Shaft weighted golf club including offset shaft portions. 3,341,203, 9–12–67, Cl. 273—81.3.

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Brilliant, Herbert. Use of fluorescent dyes in dental diagnostic methods. 3,309,274, 3–14–67, Cl. 167—84.5.

Brimberg, Torsten, to Electrolux Aktiebolaget. Vacuum cleaner. 3,308,608, 3–14–67, Cl. 55—276.

Brimble, Peter F., and J. F. Scheidbach, to S. A. Krieger, Kendix, N. J. Allin, B. Isaacson, A. S. Bradley, and S. Gendler. Variable pitch marine propeller. 3,302,725, 2–7–67, Cl. 170—160.13.

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Brimer, Marshall R., and W. T. Tucker, to Eastman Kodak Co. Aryl-β-hydroxyethyl ethers as antiozonants. 3,351,609, 11–7–67, Cl. 260—45.9.

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Brindell, Gordon D., and D. W. Marshall, to Continental Oil Co. Blends of polyethylenes having improved properties. 3,340,328, 9–5–67, Cl. 260—897.

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Brink, William J. Magnetic door catch. 3,313,565, 4–11–67, Cl. 292—251.5.

Brinker, Keith C., and C. E. Schweitzer, to E. I. du Pont de Nemours and Co. Stabilized polyoxymethylene. 3,321,443, 5–23–67, Cl. 260—67.

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Brinkley, Earl, and E. G. Young, to The Kartridg Pak Co. Container filling machine. 3,316,945, 5–2–67, Cl. 141—140.

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Yeo, Alan A., Hambling, and Alderson. 3,331,884.

British Plaster Board (Holdings) Ltd., The: *See*—
Pilgrim, Thomas A. 3,329,631.

British Railways Board: *See*—
Stone, George E., and Allenby. 3,345,637.

British Relay Ltd.: *See*—
Russell, Kenneth A. 3,350,502.

British Ropes Ltd.: *See*—
Bender, Harold M. 3,323,205.
Campbell, Robert E., Longbottom, and Shipley. 3,336,784.
Pennycuick, Kenneth. 3,355,228.

British Telecommunications Research Ltd.: *See*—
Clark, Adrian P. 3,307,112.
Croft, Geoffrey F., and Davis. 3,337,862.
Davis, John C. H. 3,309,693.
Green, Norman G., and Hodgson. 3,346,693.
Hughes, William, and Haigh. 3,307,792.
Spencer, Herbert C. 3,313,939.

British Titan Products Co. Ltd.: *See*—
Binnis, Kenneth. 3,345,187.
Callow, Alan E., and Harris. 3,295,921.
Callow, Alan E., Hughes, and Groves. 3,350,171.
Cleaver, Denis, and Herriman. 3,341,283.
Evans, Arthur W., and Arkless. 3,304,265.
Evans, Arthur W., Arkless, and Peacock. 3,329,483.
Harris, Bernard, and Jones. 3,356,455.
Hodgson, John, and Hall. 3,331,560.
Hughes, William. 3,337,300.
Lederer, Gerald. 3,316,204.
Mabbs, Frank E., and Barnard. 3,341,291.
Twist, Walter, and Haigh. 3,315,900.

British Visqueen Ltd.: *See*—
Dickson, Robert W. 3,326,449.

British Welding Research Assn.: *See*—
Roberts, Thomas M. 3,314,583.

Britt, Amos E. B. Row shaper. 3,303,799, 2–14–67, Cl. 111—6.

Britt, Horace J. and J. E., J. T. Neiswinter, and J. L. Wallace, Jr., to Atlantic Research Corp. Pulse distortion measuring device. 3,324,244, 6–6–67, Cl. 178—69.

Britt, Jack, to Rolls-Royce Ltd. Rotor. 3,304,055, 2–14–67, Cl. 253—39.15.

Britt, James E.: *See*—
Britt, Horace J. and J. E., Neiswinter, and Wallace. 3,324,244.

Britt, Kenneth W., to Scott Paper Co. Modified fibrous web and process of manufacture. 3,305,392, 2–21–67, Cl. 117—154.

Britt, Ronald L., to General Electric Co. Range forced venting discharge system. 3,334,621, 8–8–67, Cl. 126—299.

Brittain, Gary M.: *See*—
Hausenfleck, Howard D., Brittain, and Tsivitse. 3,348,098.

Brittain Industries, Inc.: *See*—
Mills, Allan K., and Frudenfeld. 3,355,943.

Brittain, Raymond E., and W. R. Mayberry, to The M-O Valve Co. Ltd. Triggered arc discharge device having a liquid cathode. 3,317,776, 5–2–67, Cl. 313—170.

Brittain, Robert W.: *See*—
Termont, Charles G., and Brittain. 3,335,884.

Brittan Industries, Inc.: *See*—
Frudenfeld, Karl. 3,337,163.

Brittell, Clarence A., to Independent Lock Co. Lock tumbler container. 3,330,404, 7–11–67, Cl. 206—16.

Britten, Harold H., incompetent (by J. B. Stombock, committee) and L. R. Peaslee, to General Electric Co. Current sensing and control circuit. 3,308,370, 3–7–67, Cl. 321—45.

Britton Corp., The: *See*—
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Britton, D. Art: *See*—
Harrison, Harry W. 3,350,900.

Britton, Philip S., and H. P. Fochler, to Continental Oil Co. Apparatus for forming flexible, thin walled plastic tubing. 3,301,734, 1–31–67, Cl. 156—425.

Britton, Ralph H., Jr., to Alfred Electronics. Means and method for stabilizing negative feedback systems. 3,327,243, 6–20–67, Cl. 331—178.

Britton, Richard B.: *See*—
Sampson, William B., Britton, and Kruger. 3,356,976.

Brix Corp., The: *See*—
Arcari, Anthony D. 3,332,187.
Arcari, Anthony D. 3,340,660.

Brixey, John C., Jr.: *See*—
Bergan, Henry P., Brixey, and Tschudi. 3,319,138.

Brixey, John C., Jr., and K. E. Statham, to Texas Instruments Inc. Method for diffusing an impurity from a doped oxide of pyrolytic origin. 3,354,008, 11–21–67, Cl. 148—187.

Brixner, Frederick W., N. A. Stillman, and H. C. Sibley, to General Signal Corp. Central to remote signalling system having roll call interrogation. 3,303,470, 2–7–67, Cl. 340—163.

Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Thermoelectric compositions of $Nb_xTa_{1-x}Si_yGe_{2-y}$. 3,298,777, 1–17–67, Cl. 23—315.

Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Red luminescent composition product and process. 3,301,791, 1–31–67, Cl. 252—301.4.

Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Solid solution of $W_{1-x}V_xSe_2$ and thermoelectric element consisting of same. 3,306,857, 2–28–67, Cl. 252—62.3.

Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Luminescent molybdate and tungstate compositions. 3,338,841, 8–29–67, Cl. 252—301.4.

Brizius, Charles A.: *See*—
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Brizon, Jean M. A. Bar-mills used more particularly for the preparation of inks and paints. 3,319,898, 5–16–67, Cl. 241—241.

Brjanov, Vitsily V.: *See*—
Stoiljarov, Alexei M., Khorosheva, Matveev, Konstantinova, Brjanov, and Kovrigina. 3,360,298.

Broad, Walter A., to H. J. Elliott, Ltd. Temperature-responsive expansible-fluid switch. 3,315,055, 4–18–67, Cl. 200—141.

Broadbent, David J.: *See*—
Gutman, Arnold D., and Broadbent. 3,299,099.
Szabo, Karoly, and Broadbent. 3,304,225.
Szabo, Karoly, and Broadbent. 3,351,679.

Broadbent, Kent D., to Hughes Aircraft Co. Magnetic thin film element. 3,321,751, 5–23–67, Cl. 340—174.

Broadbent, Roy H., to Sprague Electric Co. Vented electrolytic capacitor with coated capacitive unit. 3,333,165, 7–25–67, Cl. 317—230.

Broadbridge, Robert E., to Honeywell, Inc. Selective signaling apparatus for information handling device. 3,310,664, 3–21–67, Cl. 235—159.

Broaderick, John W., R. M. Florenza, C. A. Kelly, and M. Kozar, to International Business Machines Corp. Electrical component tester with duplexed handler. 3,353,669, 11–21–67, Cl. 209—73.

Broadhead, Samuel L., Jr., to Collins Radio Co. Limiter-compressor circuit. 3,297,882, 1–10–67, Cl. 307—88.5.

Broadhead, Samuel L., Jr., to Collins Radio Co. Plural loop automatic phase control. 3,319,178, 5–9–67, Cl. 331—2.

Broadhead, Samuel L., Jr., to Collins Radio Co. Transmitted signal two tone difference controlled single sideband squelch and avc system. 3,320,535, 5–16–67, Cl. 325—49.

Broadhead, Samuel L., Jr., to Collins Radio Co. Binary divider with multiple feedback lines. 3,346,728, 10–10–67, Cl. 235—164.

Broadhead, Samuel L., Jr., to Collins Radio Co. Digital frequency comparator. 3,354,398, 11–21–67, Cl. 328—133.

Broadhurst, Albert J.: *See*—
Kinnerley, Anthony G., and Broadhurst. 3,331,570.

Broadhurst, David: *See*—
Abson, James W., and Broadhurst. 3,314,765.

Broadhurst, Joseph D., Jr., to Westinghouse Air Brake Co. Extensible handle. 3,338,607, 8–29–67, Cl. 287—58.

Broadview Chemical Corp.: *See*—
Kalinowski, Lester W. 3,332,816.

Broadway Metals & Fabricators, Inc.: *See*—
Sahm, Roland R. 3,358,402.

Broadway Research and Development Corp.: *See*—
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Lowe, John C. 3,295,688.

Brobeck, William M., & Associates: *See*—
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Broberg, Leonard E., to A. O. Smith, Harvestore Products, Inc. Breather system for a sealed storage structure. 3,332,336, 7–25–67, Cl. 99—235.

Brobst, James D., and J. A. Vanous, to Collins Radio Co. High frequency parametric amplifier of the up-converter type. 3,346,740, 10–10–67, Cl. 307—88.3.

Brocato, Louis J., and A. H. Valentine, to United States of America, Air Force. Pulse amplitude limiter for frequency control circuit of TWT oscillator in frequency agile radar system. 3,333,268, 7–25–67, Cl. 343—17.1.

Broche, Werner, to Veb Carl Zeiss Jena. Photographic cameras having a device for locking its film loading aperture and a device for disengaging the film. 3,319,550, 5–16–67, Cl. 95—31.

Brocher, Eric, and W. Dallenbach. Method of and generator for producing alternating electric power. 3,350,584, 10–31–67, Cl. 310—11.

Brock, Edward I., to Brockstone Chemical Co. Liquid dispensing apparatus. 3,301,486, 1–31–67, Cl. 239—70.

Brock, Elwood M., to Hunterdon Transformer Co. Toroidal variable reactance transformer having two saturable cores. 3,343,074, 9–19–67, Cl. 323—56.

Brock Equipment Co.: *See*—
Schwab, Charles J. 3,355,585.

Brock, Eugene W.: *See*—
Schuler, Robert K., Miller, and Brock. 3,315,122.

Brock, George W., to International Business Machines Corp. Oxide coated magnetic recording medium. 3,353,166, 11–14–67, Cl. 340—174.1.

Brock, James D., to Industrial Boiler Co., Inc. Hot mix storage bin. 3,348,739, 10–24–67, Cl. 222—146.

Brock, James D., to Industrial Boiler Co., Inc. Crop drying apparatus. 3,352,025, 11–14–67, Cl. 34—212.

Brock, James D., to Industrial Boiler Co., Inc. Bin storing a hot asphalt mix. 3,352,354, 11–14–67, Cl. 165—169.

Brock, Norbert: *See*—
Arnold, Herbert, Rebling, Brock, and Lenke. 3,320,247.

Brock, Walter B. Motor actuated bumper. 3,355,208, 11–28–67, Cl. 293—9.

Brock, Winford G., and J. E. Nix, to United States of America, Army. Method and apparatus for casting staple-containing propellant grains. 3,311,678, 3–28–67, Cl. 264—3.

Brocker Mfg. & Supply Co.: *See*—
Hess, Thurlow H., Sr., and Brougher. 3,304,824.

Brockes, Andreas: *See*—
Weisbeck, Roland, and Brockes. 3,309,226.
Weisbeck, Roland, Brockes, and Nassenstein. 3,351,516.

Brockett, Kenneth A.: *See*—
Dionisio, Louis A., and Brockett. 3,313,366.
Brockett, Peter C., to Laboratory for Electronics, Inc. Counting circuit for traffic detection pulse inputs at random pulse rates temporarily exceeding the average rate. 3,350,547, 10-31-67, Cl. 235—92.
Brockman, Frank G., to North American Philips Co., Inc. Method of manufacturing a magnetic member having a coating of crystalline ferromagnetic material having uniaxial magnetic anisotropy. 3,303,040, 2-7-67, Cl. 117—7.
Brockman, John A., and R. Skinner. Burners for domestic and industrial heating purposes. 3,330,325, 7-11-67, Cl. 158—66.
Brockman, John J., to General Electric Co. Excitation system for a synchronous generator. 3,314,001, 4-11-67, Cl. 322—73.
Brockman, John J., and B. L. Goss, to General Electric Co. Control system for a synchronous motor. 3,350,613, 10-31-67, Cl. 318—176.
Brockmeyer, Bernard J., and M. A. Schweig, to Security Fire Door Co. Safety edge mechanism for doors. 3,330,923, 7-11-67, Cl. 200—61.43.
Brockmuller, Friedrich F. Tube forming machine for multilayer material webs comprising paper or the like substances. 3,296,057, 1-3-67, Cl. 156—548.
Brockmüller, Friedrich F., to Windmöller & Hölscher. Apparatus for valve bags. 3,323,425, 6-6-67, Cl. 93—8.
Brockmüller, Friedrich F., to Windmoller & Holscher. Guillotine for cutting webs. 3,324,752, 6-13-67, Cl. 83—328.
Brockmuller, Friedrich F., and W. Hedrich, to Windmoller & Holscher. Apparatus for shifting bag or sack workpieces during horizontal conveyance from longitudinal to transverse. 3,321,062, 5-23-67, Cl. 198—33.
Brockstone Chemical Co.: *See*—
Brock, Edward I. 3,301,486.
Brockton Contract Packaging Sales Corp.: *See*—
Katzew, Charles J., and Frost. 3,354,603.
Brockway Glass Co.: *See*—
Brubaker, John G. 3,314,714.
Champlin, Carlin S. 3,332,765.
Ellis, Warren L., and Ruck. 3,308,922.
Hazdra, James J., and Lontz. 3,341,399.
Park, Robert H. 3,332,112.
Poole, James P., Snyder, and Ryder. 3,314,772.
Yonkers, Harold A., and Lush. 3,357,811.
Brod, Manfred, to Esso Research and Engineering Co. Additives. 3,342,788, 9-19-67, Cl. 260—78.5.
Bro-Dart Industries: *See*—
Brody, Arthur Sroka, and Ozimek. 3,355,344.
Brodell, Robert F., to United Aircraft Corp. Compressor bleed control. 3,327,932, 6-27-67, Cl. 230—114.
Broderick, Edward: *See*—
Berenbaum, Morris B., Broderick, and Christena. 3,317,486.
Kaufman, Harold A., and Broderick. 3,342,673.
Osborn, Stephen W., Broderick, and Villa. 3,347,867.
Broderick, John P.: *See*—
Quaas, Joseph F., and Broderick. 3,341,337.
Broderick, John P., to Eutectic Welding Alloys Corp. Welding torch. 3,358,734, 12-19-67, Cl. 158—27.4.
Broders, Claude O., and A. E. Shepard, to United Aircraft Corp. Temperature compensated linkage. 3,327,552, 6-27-67, Cl. 74—469.
Broders, Jacques G. E., to Societe d'Etudes et d'Utilisation de Dechets Industriels et Agricoles (Sendia). Apparatus to emulsify a liquid in a gas by means of ultrasonic vibrations. 3,325,150, 6-13-67, Cl. 259—1.
Brodersen, Rolf K., to General Precision Inc. Gyro spring. 3,353,414, 11-21-67, Cl. 74—5.4.
Broderson, Dean E.: *See*—
Pitman, Raymond F., Broderson, and Gronemeyer. 3,306,373.
Broderson, Dean E. Pole handling vehicle. 3,360,055, 12-26-67, Cl. 173—28.
Brodeur, Charles H., and W. G. Schlinger, to Texaco, Inc. Treatment of hydrocarbons in plural stages to produce lower boiling hydrocarbons. 3,354,075, 11-21-67, Cl. 208—58.
Brodhead, Quita. Interchangeable and nesting commodity carrier. 3,358,616, 12-19-67, Cl. 105—366.
Brodie, Charles F., to Tyne Impex Est. Reciprocating cutter head with foam rubber mounting means. 3,343,259, 9-26-67, Cl. 30—43.92.
Brodie, Earle C. Electronic hum and ripple filter. 3,317,819, 5-2-67, Cl. 323—22.
Brodie, Hugh W., to Hawaiian Development Co. Instrument for measuring solar radiation. 3,340,730, 9-12-67, Cl. 73—170.
Brodie, Mary G., to The Sherwin-Williams Co. Method of curing polyester compositions and coatings containing synergistic combination of photosensitizers and compositions thereof. 3,326,710, 6-20-67, Cl. 117—62.
Brodin, Bengt O. I., to Joh. Mustad AB. Electrical musical instrument. 3,335,629, 8-15-67, Cl. 84—1.
Broding, Robert A., G. C. Summers, and J. O. Ely, deceased: L. V. B. Ely, executrix, to Mobil Oil Corp. Method of and means for measuring travel times through earth formations. Re. 26,297, 11-7-67, Cl. 181—5.
Brodmann, George L., and A. Stewart, to E. I. du Pont de Nemours and Co. Brassiere pad and process. 3,348,549, 10-24-67, Cl. 128—481.
Brodrene Gram A/S: *See*—
Gram, Hans. 3,296,822.
Gram, Hans. 3,312,082.
Brodsky, Jack C.: *See*—
Ballass, John T., Freedman and Brodsky. 3,340,103.
Brodsky, Robert S., to United States of America, Atomic Energy Commission. Self-checking ionization chamber type radiation detector. 3,317,823, 5-2-67, Cl. 324—33.
Brodt, Burton P., to E. I. du Pont de Nemours and Co. Liquid level control device. 3,314,445, 4-18-67, Cl. 137—396.
Brodt, Leonard E.: *See*—
Cooney, Robert J., and Brodt. 3,316,943.
Brody, Arthur. Apparatus for handling book borrowing transactions. 3,309,255, 3-14-67, Cl. 156—386.
Brody, Arthur, R. Sroka, and E. J. Ozimek, to Bro-Dart Industries. Apparatus for handling book-borrowing transactions. 3,355,344, 11-28-67, Cl. 156—355.
Brody, George, to Don Baxter, Inc. Injection site for venocylsis apparatus. 3,332,418, 7-25-67, Cl. 128—214.
Brody, Thomas P., to Westinghouse Electric Corp. Radiation sensitive electron emissive device. 3,321,659, 5-23-67, Cl. 313—94.
Broecker, Herbert A., to Vanant Co., Inc. Carton and means for cushioning and packaging heavy, fragile articles. 3,305,081, 2-21-67, Cl. 206—46.
Broeker, Hermann L., F. Y. Dupont, and A. L. Lynn, to General Electric Co. High voltage grading for dynamoelectric machine. 3,354,331, 11-21-67, Cl. 310—196.
Broersma, Robert J.: *See*—
Burch, Paul F., Broersma, and Reimer. 3,324,914.
Harrington, John A., Broersma, Runnels, and Johnson. 3,265,216.
Broersma, Robert J., and E. M. Reimer, to Wolverine Shoe & Tanning Corp. Method and apparatus for skinning. 3,295,574, 1-3-67, Cl. 146—241.
Broersma, Robert J., and E. M. Reimer, to Wolverine Shoe & Tanning Corp. Skinning machine and method. 3,299,926, 1-24-67, Cl. 146—241.
Broeze, John E., W. J. Laubendorfer, and D. W. Bott, to United Aircraft Corp. Low friction bearing. 3,304,132, 2-14-67, Cl. 308—1.
Broft, Eduard: *See*—
Zeiss, Ikari, Wilm, Flasskamp, Broft, and Lukas. 3,318,070.
Brogan, Thomas R., to Avco Corp. Method of and apparatus for producing high energy electrical impulses. 3,297,890, 1-10-67, Cl. 310—11.
Brogdex Co.: *See*—
Russell, Kenneth F. 3,348,679.
Broglio, Attilio F., to Photon, Inc. Photographic composing apparatus. 3,336,849, 8-22-67, Cl. 95—4.5.
Brogren, Edwin N.: *See*—
Beert, Carl J., and Brogren. 3,335,840.
Broh-Kahn, Robert H., and A. Galat, to Bard Pharmaceuticals, Inc. Therapeutic compositions containing nitrate esters. 3,355,356, 11-28-67, Cl. 167—65.
Brojer, Zbigniew, P. A. Penczek, and J. H. Sas. Method of manufacturing and separating epoxide resins. 3,296,157, 1-3-67, Cl. 260—18.
Brokaw, Adrian P.: *See*—
Georgi, Heinz W., and Brokaw. 3,337,746.
Georgi, Heinz W., and Brokaw. 3,340,501.
Brokaw, George K. Phonetic teaching device. 3,348,320, 10-24-67, Cl. 35—35.
Broken Hill Associated Smelters Proprietary Ltd., The: *See*—
Blanks, Ronald F., and Blaskett. 3,300,300.
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Baker, Don R., Brokke, and Arnekley. 3,347,850.
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Simone, Raymond A., and Brokke. 3,328,405.
Thompson, Arthur C., Szabo, Brokke, and Menn. 3,313,814.
Brolin, Stephen J., to Bell Telephone Laboratories, Inc. High sensitivity voltage monitor. 3,354,448, 11-21-67, Cl. 340—248.
Brolin, Stephen J., and G. W. Meszaros, to Bell Telephone Laboratories, Inc. High frequency switching regulator. 3,304,489, 2-14-67, Cl. 323—9.
Broling, Keith W., to Brandon Equipment Co. Inc. Tie down system for heavy vehicles. 3,295,464, 1-3-67, Cl. 105—369.
Broling, Keith W. Tie down for wall board and the like. 3,312,182, 4-4-67, Cl. 105—369.
Broling, Keith W., to Brandon Equipment Co., Inc. Universal tie down winch. 3,324,807, 6-13-67, Cl. 105—369.
Broling, Keith W., to Brandon Equipment Co. Stake pocket chain anchor. 3,331,334, 7-18-67, Cl. 105—369.
Broling, Keith W., to Brandon Equipment Co., Inc. Collapsible fifth wheel stand for piggy back trailers. 3,346,223, 10-10-67, Cl. 248—119.
Broling, Keith W., to Brandon Equipment Co. Inc. Automobile bridge plate. 3,351,024, 11-7-67, Cl. 105—458.
Broman, Arthur, and R. Bats, to Glaverbel. Processes and apparatus for the manufacture of sheets of glass by drawing. 3,351,448, 11-7-67, Cl. 65—91.
Bromander, Gayle C., and H. E. Jones, to Honeywell Inc. Constant energy pulse generating apparatus. 3,318,158, 5-9-67, Cl. 73—517.
Brombaugh, John B., to D. H. Baldwin Co. Modulator-demodulator audio amplifier. 3,310,486, 4-25-67, Cl. 330—174.

Brombaugh, John B., to D. H. Baldwin Co. Electronic organ with cliff. 3,333,042, 7-25-67, Cl. 84—1.13.
Bromby, Norman G., G. H. Rayner, and D. B. Wootton, to Imperial Chemical Industries Ltd. Pyridinium salts. 3,349,094, 10-24-67, Cl. 260—297.
Bromby, Norman G., and D. B. Wootton, to Imperial Chemical Industries Ltd. Vulcanization process for rubber. 3,357,957, 12-12-67, Cl. 260—79.5.
Bromley, Kenneth W., to General American Transportation Corp. Molded plastic shipping container for live fowl. 3,330,434, 7-11-67, Cl. 220—4.
Bromstead, Edward J., to Midland Industrial Finishes Co. Coating compositions (a) a vinyl chloride organosol (b) a vinyl chloride copolymer solution (c) an acrylic resin component (d) a butylated urea-formaldehyde and optionally (e) a vinyl chloride-vinylidene chloride solution. 3,305,602, 2-21-67, Cl. 260—853.
Bromstead, Edward J., to Midland Industrial Finishes Co., Inc. Coated metal surfaces. 3,323,943, 6-6-67, Cl. 117—132.
Bronander, Wilhelm B., Jr.: *See*—
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Greulich, Max A. 3,342,304.
Bronaugh, John C.: *See*—
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Bronder, Herbert, to Ingersoll-Rand World Trade Ltd. Apparatus for shunting mine cars or the like. 3,305,047, 2-21-67, Cl. 187—8.41.
Bronder, Herbert, to Ingersoll-Rand World Trade Ltd. Drill mounting. 3,334,849, 8-8-67, Cl. 248—13.
Brondum, Hazel K.: *See*—
Ward, Irving A., and Bletcher. 3,336,935.
Brondyke, Kenneth J., and R. T. Craig, to Aluminum Co. of America. Continuous casting apparatus with means supporting only outer portions of non-uniform ingot. 3,349,837, 10-31-67, Cl. 164—274.
Bronfman, Benjamin. Orienting hopper for button feeding mechanism. 3,337,089, 8-22-67, Cl. 221—160.
Brongersma, Cornelius, and H. C. Stevens, Jr., to Dresser Industries, Inc. Electric motor braking mechanism. 3,335,304, 8-8-67, Cl. 310—77.
Bronikowski, Raymond J., to McGraw-Edison Co. Outdoor high tension insulator having long creepage path. 3,296,366, 1-3-67, Cl. 174—209.
Bronikowski, Raymond J., to McGraw-Edison Co. Protective means for encased electrical apparatus. 3,309,477, 3-14-67, Cl. 200—113.
Bronnes, Robert L., R. C. Hughes, and R. C. Sweet, to North American Philips Co., Inc. Metallizing non-metals. 3,339,267, 9-5-67, Cl. 29—473.1.
Bronson Specialties, Inc.: *See*—
Wood, Morris E. 3,296,731.
Bronstein, Jesse B., and G. L. Griffith, to Trojan Powder Co. Pentaerythritol tetranitrate-trimethylolethane trinitrate explosives. 3,344,005, 9-26-67, Cl. 149—38.
Broux Locksmiths, Inc.: *See*—
Skrapits, Andrew, and Braun. 3,315,502.
Bronzavia: *See*—
Gartner, Berthold. 3,307,568.
Broodo, Archie, to General Electric Co. Electrical capacitors and electrode material therefor. 3,302,073, 1-31-67, Cl. 317—230.
Brook, David. Method and apparatus for making material having variable length loops. 3,331,219, 7-18-67, Cl. 66—108.
Brook, James E., to The Bendix Corp. Resolver controlled torquing system. 3,346,791, 10-10-67, Cl. 318—24.
Brook, James E., to The Bendix Corp. Test standard device for discrete angle values. 3,355,806, 12-5-67, Cl. 33—1.
Brook, James E., to The Bendix Corp. Velocity corrected resolver encoding system. 3,357,012, 12-5-67, Cl. 340—347.
Brook, James E., and F. A. Hanusek, to The Bendix Corp. Resolver incremental encoder. 3,353,175, 11-14-67, Cl. 340—347.
Brook, John W.: *See*—
Goldstein, Albert, and Brook. 3,310,460.
Lagally, Paul, and Brook. 3,348,997.
Osborg, Hans, Brook, and Goldstein. 3,298,902.
Brooke, Raymond: *See*—
Bonn Theodore H., Brooke, and Goldman. 3,307,556.
Brooker, David W., W. V. Wilkinson, and A. McIntosh, to Shell Oil Co. Process for preparing fluidized bed coating compositions containing polyepoxides and amine curing agents. 3,321,438, 5-23-67, Cl. 260—47.
Brooker, Leslie G. S.: *See*—
Jenkins, Philip W., and Brooker. 3,326,688.
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Browning, Ernest C. Single handle faucet. 3,312,248, 4–4–67, Cl. 137—636.2.

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Brownlee, Winston E., J. L. Ritchey, and S. Steed, to Parsons Corp. Method and apparatus for applying bonding pressures of differing magnitudes to adjacent surfaces of a workpiece. 3,305,420, 2–21–67, Cl. 156—217.

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Brownscombe, Eugene R., and L. R. Kern, to The Atlantic Refining Co. Desalting water by reverse osmosis through novel semipermeable membranes. 3,331,772, 7–18–67, Cl. 210—23.

Brownscombe, Philip J., to Eugene Dietzgen Co. Projector viewer and image scanning assembly therefor. 3,352,201, 11–14–67, Cl. 88—24.

Brownson, Ivan F. Double hook. 3,353,232, 11–21–67, Cl. 24—129.

Brownson, John S., to Massachusetts Institute of Technology. Method of making a heterojunction semiconductor device. 3,338,760, 8–29–67, Cl. 148—175.

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Brownstein, Raymond G. Rotary straightening machine. 3,301,030, 1–31–67, Cl. 72—98.

Broyard, Yvon. Appliances for the removal of dust or purification by wet process or washing of a gaseous stream. 3,343,346, 9–26–67, Cl. 55—413.

Broyde, Samuel O.: *See*—
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Buss, Jack M., and Suddreth. 3,329,181.

Broyles, James D.: *See*—
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Brozovich, Nicholas, Vehicle and propelling means. 3,336,037, 8–15–67, Cl. 280—12.14.

Brubaker, John G., to Brockway Glass Co. Article holder. 3,314,714, 4–18–67, Cl. 294—93.

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Brubaker, Richard M. and R. F., and T. O. Sturrud, to General Motors Corp. Filter in domestic appliance. 3,305,093, 2–21–67, Cl. 210—108.

Brubaker, Robert F.: *See*—
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Brubaker, Wilson M., and C. F. Robinson, to Bell & Howell Co. Multipole mass filter having means for applying a voltage gradient between diametrically opposite electrodes. 3,321,623, 5–23–67, Cl. 250—41.9.

Brucar, Elias, to Fortissimo Etablissement. Fuel feeding installation for internal combustion engine, 3,322,407, 5–30–67, Cl. 261—34

Bruce, Charles R., to Marathon Oil Co. Fluid operated spinner magnetometer for determining the orientation of the principal magnetic axis of a sample material. 3,324,386, 6–6–67, Cl. 324—14.

Bruce, Charles W., to United States of America, Air Force. Apparatus for measuring energy output of a laser. 3,313,154, 4–11–67, Cl. 73—190.

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Bruce, George B., and H. R. Smalstig, to Brusmatic Inc. Automatic cotton lint sampler. 3,352,159, 11–14–67, Cl. 73—422.

Bruce, Harold P.: *See*—
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Bruce Industries, Inc.: *See*—
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Bruce, John A., R. A. Smith, and J. C. Whitesell, to Forspack, Inc. Apparatus for packaging a plurality of articles within a single package. 3,325,966, 6–20–67, Cl. 53—198.

Bruce, John P., to The Dow Chemical Co. Process for preparing fluid, non-plasticized vinyl chloride polymer compositions and thermoset polymers having reinforcing fibrous material. 3,354,112, 11–21–67, Cl. 260—32.8.

Bruce, Morris W., to Essex Wire Corp. Reed relay terminal construction. 3,359,395, 12–19–67, Cl. 200—166.

Bruce, William F., to American Home Products Corp. Process for preparing bisacetamides. 3,350,446, 10–31–67, Cl. 260—559.

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Bruchmann, Helmut: *See*—
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Bruck, Stephen D., to United States of America, Commerce. Chemically crimped nylon fibers. 3,299,009, 1–17–67, Cl. 260—78.

Bruck, Stephen D., to United States of America, Commerce. Chemically crimping nylon fibers through formation of disulfide bonds therein. 3,331,656, 7–18–67, Cl. 8—115.5.

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Brucken, Bryon L., to General Motors Corp. Rod suspension for clothes washing apparatus. 3,321,940, 5–30–67, Cl. 68—23.

Brucken, Byron L., to General Motors Corp. Domestic clothes dryer. 3,333,346, 8–1–67, Cl. 34—131.

Brucken, Byron L., and H. P. Cassady, to General Motors Corp. Waste incinerator. 3,314,385, 4–18–67, Cl. 110—8.

Brucken, Byron L., and H. W. Denton, to General Motors Corp. Washing machine having a transistor controlled magnetic clutch. 3,328,983, 7–4–67, Cl. 68—12.

Brucker, Henry J., to American Aluminum Co. Strap end connector. 3,332,122, 7–25–67, Cl. 24—265.

Brückl, Franz. Boot flap tightener comprising a tightening lever having notches and a guard therefor. 3,295,177, 1–3–67, Cl. 24—70.

Bruckl, Franz X., to Hannes Marker. Heel holder for safety ski bindings. 3,351,355, 11–7–67, Cl. 280—11.35.

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Brückner, Klaus, K.-H. Bork, H.-G. Kraft, and H. Kieser, to E. Merck, Aktiengesellschaft. Novel progesterone derivatives. 3,328,432, 6–27–67, Cl. 260—397.4.

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Brueckmann, Helmut, to United States of America, Army. Multi-directional antenna system. 3,305,783, 2–21–67, Cl. 325—369.

Brueckmann, Helmut, to United States of America, Army. Monopole antenna including electrical switching means for varying the length of the outer coaxial conductor with respect to the center conductor. 3,315,264, 4–18–67, Cl. 343—791.

Brueckmann, Helmut, to United States of America, Army. Variable impedance transmission line. 3,324,426, 6–6–67, Cl. 333—34.

Brueckmann, Helmut, to United States of America, Army. Broadband dual-polarized antenna. 3,358,287, 12–12–67, Cl. 343—786.

Brueckner, Gilbert M., to Vanant Co., Inc. Tubular cushioning member for packaging fragile articles. 3,344,916, 10–3–67, Cl. 206—62.

Brueder, Antoine, to Société Anonyme André Citröen. Gear box. 3,316,778, 5–2–67, Cl. 74—732.

Brueder, Antoine, to Societe Anonyme Andre Citroen. Automatic regulation systems of hydrostatic transmissions for automotive vehicles. 3,324,739, 6–13–67, Cl. 74—472.

Brueder, Antoine, to Societe Anonyme Andre Citroen. Devices for distributing the braking effort between the axles of an automotive vehicle. 3,325,224, 6–13–67, Cl. 303—6.

Brueder, Antoine, to Societe Anonyme Andre Citroen. Servo-steering devices for automobile vehicles. 3,330,372, 7–11–67, Cl. 180—79.2.

Brueder, Antoine, to Societe Anonyme Andre Citroen. Lever actuated, spot type disc brake. 3,349,872, 10–31–67, Cl. 188—73.

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Brueggeman, Leo, and W. Timm, to Electro-Optical Systems, Inc. Sensor structure. 3,305,818, 2–21–67, Cl. 338—4.

Brueggemann, Harry P., to The Marquardt Corp. Line scan device utilizing cavitation phenomena produced in an ultrasonic cell. 3,306,977, 2–28–67, Cl. 178—7.6.

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Bruel, Yvon and A. Machine for cleaning and calibrating vegetables, more particularly asparagus. 3,353,577, 11–21–67, Cl. 146—81.

Bruemmer, Joseph H., to United Carbide Corp. Aerobic treatment of sewage. 3,456,609, 12–5–67, Cl. 210—7.

Bruene, Warren B., to Collins Radio Co. Modulator for grounded screen tetrode R.F. power amplifier. 3,297,966, 1–10–67, Cl. 332—60.

Bruene, Warren B., to Collins Radio Co. Automatically tuned coupled resonant circuits. 3,355,667, 11–28–67, Cl. 325—174.

Bruenn, Robert P. Positive crankcase ventilation system. 3,299,873, 1–24–67, Cl. 123—119.

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Bruglemans, Lucas, to Automatic Electric Laboratories, Inc. Crosspoint switching array having marker pulse measuring means. 3,308,244, 3–7–67, Cl. 179—18.

Bruglemans, Lucas, to Automatic Electric Laboratories, Inc. Line lockout in a cross point switching system. 3,337,692, 8–22–67, Cl. 179—18.

Bruglemans, Lucas, to Automatic Electric Laboratories, Inc. Diphase transmission system with noise pulse cancellation. 3,343,091, 9–19–67, Cl. 325—320.

Brugnola, Anthony. Multiple electrode spark gaps with a condenser connected in parallel with one spark gap. 3,324,347, 6–6–67, Cl. 315—59.

Brugnoli, Vincenzo. Procedure and device to lift liquids by means of pressure fluids. 3,302,586, 2–7–67, Cl. 103—232.

Bruhl, Donald A., Jr., and W. E. Counts, to Beckman Instruments, Inc. Cermet resistance composition and resistor. 3,326,720, 6–20–67, Cl. 117—227.

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Brumbaugh, Robert T., to Magood Corp. Endless tape cartridge. 3,306,510, 2–28–67, Cl. 226—118.

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Brumfield, John H. Wheel cover retaining means. 3,355,219, 11–28–67, Cl. 301—37.

Brumfield, Philip E., to Koppers Co., Inc. Polybenzothiazole preparation. 3,296,224, 1–3–67, Cl. 260—79.7.

Brumfield, Robert C., to Hercules Powder Co. Pulsed electrical power generation. 3,317,763, 5–2–67, Cl. 310—11.

Brumfield, Robert C., to MHD Research, Inc. Glow discharge reactor. 3,324,825, 6–13–67, Cl. 118—49.5.

Brumlik, George C. Framework molecular orbital model assembly. 3,333,349, 8–1–67, Cl. 35—18.

Brumlik, George C. Combined framework and space-filling molecular model assembly. 3,355,820, 12–5–67, Cl. 35—18.

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Brummond, Werner, to F. Stuble. Control system for molding machines and the like. 3,315,048, 4–18–67, Cl. 200—61.41.

Brun, Herbert, W. S. Humphrey, Jr., and J. Terzian, to Sylvania Electric Products, Inc. Electronic computer interrupt system. 3,309,672, 3–14–67, Cl. 340—172.5.

Brunati, Enrico, to Aktiebolaget Separator. Centrifugal separator of vacuum type. 3,300,129, 1–24–67, Cl. 233—1.

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Brundage, Robert W., to Emerson Electric Co. Laundry equipment power package. 3,352,176, 11–14–67, Cl. 74—785.

Brundage, Robert W., and W. J. Waight, to The Emerson Electric Mfg. Co. Oscillating power source particularly for laundry machine. 3,315,500, 4–25–67, Cl. 68—133.

Brundage, Walter L., Jr., to United States of America, Navy. Barophilic bacteria sampler. 3,301,067, 1–31–67, Cl. 73—425.4.

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Brundell, Per G., and K. E. A. Jonsson, to Brundell & Jonsson Aktiebolag. Method and means for forest harvesting. 3,356,-116, 12–5–67, Cl. 144—326.

Brundige, Maurice M., D. N. Obenshain, J. H. Fredrickson, and H. F. Kohn, Jr., to West Virginia Pulp and Paper Co. Calender roll. 3,336,862, 8–22–67, Cl. 100—162.

Brundige, Maurice M., G. K. Hunger, H. F. Kohne, Jr., and F. L. Kurrle, to West Virginia Pulp and Paper Co. Process for producing fibrous filler having high wet end retention. 3,342,921, 9–19–67, Cl. 264—200.

Brundin, Bjorn, to Lucentia, Ekman & Brundin. Furnace for combustion of solid fuels. 3,301,202, 1–31–67, Cl. 110—38.

Brunel, Henri. Non-corrosive, lubricating cutting and cooling additives. 3,320,164, 5–16–67, Cl. 252—49.

Brunel, Joseph J. A., to Canadair Ltd. Apparatus for automatically compensating the output of a magnetic field sensing device for the effects of interfering magnetic fields. 3,311,821, 3–28–67, Cl. 324—43.

Brunelle, Henry E., Jr., and S. J. Schwartz, to General Electric Co. Scanning prism utilizing our roof prism components. 3,320,019, 5–16–67, Cl. 350—286.

Brunelle, Lawrence J., to Olin Mathieson Chemical Corp. Piston return and buffer system. 3,331,546, 7–18–67, Cl. 227—10.

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Bruner, Georges, to Societe Anonyme des Ateliers d'Aviation Louis Bregnet. Discharge nozzle apparatus for jet aircraft. 3,333,772, 8–1–67, Cl. 239—265.13.

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Brunette, Henry D., and R. Hylnk, to Cutler-Hammer, Inc. Biased magnetically operated electrical switches. 3,325,695, 6–13–67, Cl. 317—155.

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Bruning, Reinhard, and J. Zeyns, to North American Philips Co. Inc. Method and devices for the supply and exact proportioning of fuel. 3,334,679, 8–8–67, Cl. 158—36.3.

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Bruno, Edward C. Display device. 3,301,516, 1–31–67, Cl. 248—176.

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Brunton, James C., to British Cellophane Ltd. Process for the manufacture of ultra-violet light absorbing cellulosic films. 3,317,328, 5–2–67, Cl. 106—165.

Brunton, James C., and M. W. Bartlett, to British Cellophane Ltd. Polymerisation of 2,3-dichlorobutadiene. 3,325,564, 6–13–67, Cl. 260—92.3.

Bruscaglioni, Raffaello, to Felotecnica Saimoiraght SpA. Process for eliminating errors of eccentricity and for reducing errors of graduation in topographic instruments. 3,325,901, 6–20–67, Cl. 33—1.

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Brusson, Edgar H., and K. L. Hower, to United Aircraft Corp. Space suit heat exchanger with liquid boiling point control. 3,343,536, 9–26–67, Cl. 128—142.5.

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Brutting, Eugen. Sport shoe. 3,324,578, 6–13–67, Cl. 36—2.5.

Brutting, Eugen. Rigid plastic bag. 3,327,924, 6–27–67, Cl. 229—55.

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Bryan, Harvard J. Cheek-operated safety for guns. 3,324,587, 6–13–67, Cl. 42—70.

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Bryan, Joe H. Intravenous bottle trolley and track. 3,310,-003, 3–21–67, Cl. 104—94.

Bryan, John F., Jr. Railroad ballast handling system. 3,339,493, 9–5–67, Cl. 104—7.

Bryan, Leonard T. F. Device for detecting flaws in fabrics. 3,308,658, 3–14–67, Cl. 73—159.

Bryan, Leonard T. F., and B. Haselgrove, to Detexomat Ltd. Automatic toe-closing of stockings. 3,327,664, 6–27–67, Cl. 112—262.

Bryan, Morris M., Jr., to The Jefferson Mills, Inc. Method and apparatus for cleaning cotton. 3,307,227, 3–7–67, Cl. 19—200.

Bryan, Morris M., Jr., to The Jefferson Mills, Inc. Method for continuous, high-speed processing and cleaning of fibers. 3,320,641, 5–23–67, Cl. 19—156.1.

Bryan, Morris M., Jr., to The Jefferson Mills, Inc. Creel. 3,321,153, 5–23–67, Cl. 242—131.

Bryan, Morris M., Jr., to The Jefferson Mills, Inc. Method of and apparatus for the cleaning of fibers. 3,339,245, 9–5–67, Cl. 19—200.

Bryan, Morris M., Jr., to The Jefferson Mills, Inc. Long spinning frame. 3,339,361, 9–5–67, Cl. 57—92.

Bryan, Morris M., Jr., to The Jefferson Mills, Inc. Apparatus for cleaning fibers. 3,344,479, 10–3–67, Cl. 19—65.

Bryan, Morris M., Jr., to The Jefferson Mills, Inc. Automatic fiber processing apparatus. 3,344,480, 10–3–67, Cl. 19—65.

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Bryan, Wilson J., Jr., T. E. Lesslie, and G. A. Geselbracht, to Martin-Marietta Corp. Phthalocyanine dyestuffs. 3,334,-116, 8–1–67, Cl. 260—314.5.

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Bryant, James G. Disintegrating machine. 3,322,355, 5–30–67, Cl. 241—186.

Bryant, John G. Materials handling equipment. 3,318,630, 5–9–67, Cl. 294—104.

Bryant, John H., to Honeywell Inc. Detection apparatus for indicating when a voltage is above or below normal. 3,317,747, 5–2–67, Cl. 307—88.5.

Bryant, Leland W., C. H. Sharpe, and F. A. Swingle, to General Motors Corp. Fuel distribution system for multiple burners in a gas turbine engine. 3,319,418, 5–16–67, Cl. 60—39.28.

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Bryant, Patrick S., to Imperial Chemical Industries Ltd. Polymerisation process. 3,349,066, 10–24–67, Cl. 260—85.5.

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Brzezinski, Norbert J., and C. L. Milliken; said Brzezinski, assor. to C. L. Milliken. Golf ball sphericity gauge and utility tool. 3,310,879, 3-28-67, Cl. 33—178.
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Bubniak, William C., to General Motors Corp. Rotary regenerator seal. 3,298,429, 1-17-67, Cl. 165—9.
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Buccicone, Dario. 3,344,645.
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Buchanan, William C. Unitary multiple off-wall drains. 3,354,-899, 11-28-67, Cl. 137—360.
Buchanan, William G., and G. H. Howing, to The Gleason Works. Tooth cutting machine with work handling mechanism. 3,354,782, 11-28-67, Cl. 90—1.
Buchbinder, Henry M. Refrigerated display apparatus. 3,295,634, 1-3-67, Cl. 186—1.
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Bucher, Edwin. Protective device on roads. 3,360,244, 12-26-67, Cl. 256—13.1.
Bucher, Erich, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Draw-twisting method and yarn tension adjusting apparatus. 3,325,985, 6-20-67, Cl. 57—93.
Bucher, Jonas F. Resistance measuring circuit having spurious resistance compensating means. 3,358,228, 12-12-67, Cl. 324—62.
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Kimberlin, Charles N., Jr., and Buchmann. 3,341,282.
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Buchmann, Kurt H., and H. Kruger, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Chip-removing tool. 3,324,528, 6-13-67, Cl. 29—96.
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Bucholtz, Daniel J., R. G. Hartman, C. S. Ingraham, J. A. Meyer, and M. V. Powers, to Sylvania Electric Products Inc. X-ray diffractometer control system. 3,345,613, 10-3-67, Cl. 340—172.5.
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Buchwald, Fritz, to International Standard Electric Corp. Pneumatic tube system with a long driving section and for high speed of the carriers. 3,305,191, 2-21-67, Cl. 243—4.
Buchwald, Robert M., to General Motors Corp. Hand brake mechanism. 3,310,995, 3-28-67, Cl. 74—535.
Buchwald, Robert M., to General Motors Corp. Hand brake lever mechanism convertible to a fly-off hand brake. 3,335,621, 8-15-67, Cl. 74—538.
Buchwalter, Francis F., N. L. Greif, A. Skolnik, and J. J. Baker, to Revlon, Inc. Containers for fingernail enamel. 3,311,941, 4-4-67, Cl. 15—510.
Buck, Basil H.: *See*—
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Buck, Ivan, Jr.: *See*—
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Buck, James R., to Buck Tool Co. Expandable mandrel. 3,357,-710, 12-12-67, Cl. 279—2.
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Buck, James R. 3,357,710.
Buck, Willard E. Electric-motor-driven evacuated high speed rotating system for cameras. 3,323,845, 6-6-67, Cl. 308—203.
Buck, Willard E., to Technical Operations, Inc. Continuous writing streak and framing camera. 3,325,241, 6-13-67, Cl. 352—84.
Buck, Willard E., to Buck Instrument Co. Electrically driven timing device devoid of permanent magnet elements. 3,349,-306, 10-24-67, Cl. 318—128.
Buck, Willard E. Fused quartz motion sensitive transducer. 3,356,963, 12-5-67, Cl. 331—65.
Buck, William B., to Phillips Petroleum Co. Drilling method and apparatus. 3,322,214, 5-30-67, Cl. 175—66.
Buck, Wolfgang, R. Sehring, and K. Zelle, to C. H. Boehringer Sohn. O-alkyl-O-halophenyl-alkyl-thlophosphonates. 3,356,-772, 12-5-67, Cl. 260—961.
Buckbee, Mears Co.: *See*—
Brown, Silas A. 3,308,698.
Frantzen, John J. 3,313,223.
Frantzen, John J. 3,325,319.
Frantzen, John J. 3,325,384.
Mears, Norman B. 3,313,225.
Mears, Norman B. 3,329,541.
Mears, Norman B. 3,329,588.
Bucke, Lynn O., and LeR. K. Walsh, to Field Enterprises, Inc. Newspaper accounting mechanism. 3,298,605, 1-17-67, Cl. 235—98.
Buckely, Francis T., L. N. Finch, and I. L. Seldin, to Monsanto Co. Thermally stable inks for printing of polyvinyl butyral. 3,346,526, 10-10-67, Cl. 260—29.1.
Buckeridge, Roger M., to Westinghouse Air Brake Co. Fail-safe continuous ground monitoring circuit. 3,335,324, 8-8-67, Cl. 317—18.
Buckeye Cellulose Corp., The: *See*—
James, Joseph S., Jr. 3,312,686.
Mueller, William A., Maskey, and Ferguson. 3,311,115.
Nelson, Russell. 3,347,855.
Buckhorn Corp.: *See*—
Christensen, Garn G. 3,319,922.
Buckingham, John S., to United States of America, Atomic Energy Commission. Strontium recovery process. 3,333,919, 8-1-67, Cl. 23—66.
Buckingham, Joseph T., and H. D. Morris, to Systron-Donner Corp. Resonant pickoff device. 3,321,753, 5-23-67, Cl. 340—196.
Buckle, Cyril C., and D. W. Heightman, to British Home Entertainment Ltd. Subscription television, radio and like information supply systems. 3,305,836, 2-21-67, Cl. 340—147.
Buckler, Sheldon A.: *See*—
Epstein, Martin, Buckler, Sherr, and Gillham. 3,332,889.
Papp, Grace P., and Buckler. 3,314,993.
Buckles, Eldon R. Trailer with steerable wheeled prop. 3,348,-860, 10-24-67, Cl. 280—475.
Buckley, Arthur H.: *See*—
Kekopoulos, Gregory C., and Buckley. 3,360,262.
Buckley, Charles W., and E. Schrempp, to Pitney-Bowes, Inc. Drive system. 3,310,139, 3-21-67, Cl. 192—.02.
Buckley, Clayton G., and D. C. Brown, to The Bendix Corp. Speed responsive apparatus. 3,351,811, 11-7-67, Cl. 317—5.
Buckley, Daniel J.: *See*—
Long, Noel V., and Buckley. 3,340,537.
Buckley, Donald: *See*—
Andrew, Herbert F., and Buckley. 3,351,578.
Buckley, Donald H., and R. L. Johnson, to United States of America, National Aeronautics and Space Administration. Metallic film diffusion for boundary lubrication. 3,317,341, 5-2-67, Cl. 117—65.2.
Buckley, Gordon S., and R. A. Robb, to Courtaulds Ltd. Yarn crimping method and apparatus. 3,340,585, 9-12-67, Cl. 28—1.
Buckley, John J.: *See*—
Simmons, Arthur L., and Buckley. 3,309,929.
Simmons, Arthur L., Roese, and Buckley. 3,312,422.
Buckley, Richard D., and A. J. Palumbo, to Westinghouse Electric Corp. Cast electrical bushing construction having controlled and shielded shrinkage voids. 3,318,995, 5-9-67, Cl. 174—142.
Buckley, Robert A., to Ferro Corp. Vinyl chloride resins containing cyclic phosphites. 3,342,767, 9-19-67, Cl. 260—31.8.
Buckley, Robert A., to Ferro Corp. Mixtures of tin, lead and zinc naphthenates and octoates as catalysts for polyurethane foams. 3,347,804, 10-17-67, Cl. 260—2.5.
Buckley, Robert A., and F. C. Russo, deceased (by N. Russo, representative), to Ferro Corp. Transparent compositions comprising vinyl chloride polymer and unsaturated dicarboxylic acid. 3,347,823, 10-17-67, Cl. 260—45.85.
Bucklisch, Ludwig, and L. Volpert, to Dynamit Nobel Aktiengesellschaft. Pressure control device. 3,307,451, 3-7-67, Cl. 89—1.701.
Bucklow, Geoffrey E., and J. Knowles, to Ernest Scragg & Sons Ltd. Creel for textile machines. 3,304,026, 2-14-67, Cl. 242—131.
Buckman, John D., J. D. Pera, and F. W. Raths, to Buckman Laboratories, Inc. Chloromethyl 1-butanethiolsulfonate. 3,356,706, 12-5-67, Cl. 260—453.
Buckman, Kenneth E.: *See*—
Tuffnell, Derrick P., and Buckman. 3,321,084.
Buckman, Kenneth E., to General Motors Corp. Tube interconnection devices. 3,321,220, 5-23-67, Cl. 285—410.
Buckman Laboratories, Inc.: *See*—
Buckman, John D., Pera, and Raths. 3,356,706.
Buckman, Stanley J., and Pera. 3,306,810.
Buckman, Stanley J., Pera, and Raths. 3,354,033.
Buckman, Stanley J., and J. D. Pera, to Buckman Laboratories, Inc. Compositions containing methylene bisthiocyanate, dispersant and a dimethylamide and processes of inhibiting microbiological deterioration utilizing said composition. 3,306,810, 2-28-67, Cl. 162—161.
Buckman, Stanley J., J. D. Pera, and F. W. Raths, to Buckman Laboratories, Inc. Compositions containing monosubstituted 2-bromoacetophenones and processes of utilizing the same. 3,354,033, 11-21-67, Cl. 162—161.
Buckminster, Lloyd A., and W. A. Washburn, to Textron Inc. Apparatus for blocking lenses. 3,304,586, 2-21-67, Cl. 22—58.
Bucknell, E. H.: *See*—
Ward, Irving A., and Bletcher. 3,336,935.

Bucknell, Ernest H., and I. A. Ward, 10% to estate of R. E. Bletcher, deceased, 5% to F. Robertson, 5% to G. Robertson, 10% to L. Bucknell, 10% to R. H. Bletcher, 10% to Dan G. Liston, 5% to Dan G. Liston, trustee for D. E. Liston, 5% to C. A. Liston, 5% to J. H. Liston, 10% to H. Brondum, 10% to P. Bletcher, 5% to M. Liston, and 10% to E. H. Bucknell. Faucet valve with stationary inlet tube. 3,324,879, 6-13-67, Cl. 137—454.6.

Bucknell, Lenora: *See*—
Bucknell, Ernest H., and Ward. 3,324,879.

Bucknell, Mabel: *See*—
Ward, Irving A., and Bletcher. 3,336,935.

Buckwalter, Milton T., and L. E. Anderson, Sr., to Pittsburgh Des Moines Steel Co. Bending structural shapes. 3,339,392, 9-5-67, Cl. 72—166.

Bucourt, Robert: *See*—
Nomine, Gerard, Bucourt, and Dube. 3,311,616.

Bucourt, Robert, A. Pierdet, and G. Costerousse, to Roussel-UCLAF. Novel 4-chloro-4,9,11-gonatrienes. 3,309,388, 3-14-67, Cl. 260—397.45.

Bucourt, Robert A. Pierdet, and G. Costerousse, to Roussel-UCLAF. 19-nor-$\Delta^{1,9,11}$-pregnatriene-3,20-dione, process and intermediates. 3,313,703, 4-11-67, Cl. 167—74.

Bucourt, Robert, A. Pierdet, J. Tessier, and G. Costerousse, to Roussel-UCLAF. 17-alkyl-19-nor-$\Delta^{1,9,11}$-pregnatriene-3,20-diones, process and intermediates for preparing same and therapeutic compositions thereof. 3,346,454, 10-10-67, Cl. 167—74.

Bucourt, Robert, and A. Pierdet, to Roussel-UCLAF. 1'H-pyrazolo [3',4': 17,16]-$\Delta^{1,3,11}$-estratriene 3-one and process for preparation thereof. 3,347,853, 10-17-67, Cl. 260—239.5.

Bucourt, Robert, A. Pierdet, G. Costerousse, R. Joly, J. Warnant, and B. Godinet, to Roussel-UCLAF. Novel process for the preparation of 2-alkylcyclopentane-1,3-diones. 3,349,130, 10-24-67, Cl. 260—586.

Baey, Harry R. Mold for pressure injected material. 3,357,057, 12-12-67, Cl. 18—42.

Buey, Harry R. Safety means for hydraulic presses and the like. 3,359,598, 12-26-67, Cl. 18—16.

Bucyrus-Erie Co.: *See*—
Baer, Josef. 3,335,470.
Pezzini, Mario. 3,335,877.

Buczala, George S., W. E. Rosengarten, Jr., and L. L. Copeland; said Copeland assor. to said Buczala and said Rosengarten. Expendable mold with means to release trapped air and prevent escape of sealant. 3,350,050, 10-31-67, Cl. 249—89.

Buczkowski, Dwight E.: *See*—
Steinbrecher, Lester, Dollman, Buczkowski, and Harrison. 3,329,587.
Steinbrecher, Lester, Dollman, Buczkowski, and Harrison. 3,350,284.

Budai, Andrew L., to Jaybee Mfg. Corp. Drawer pull. 3,311,943, 4-4-67, Cl. 16—125.

Budai, Donald M. Flat cable connector. 3,353,141, 11-14-67, Cl. 339—99.

Budai, Robert E. Electrically simulated football game apparatus. 3,315,962, 4-25-67, Cl. 273—94.

Budd Co., The: *See*—
Angstadt, William D. 3,298,589.
Angstadt William D. 3,307,766.
Buyze, Edwin K. 3,298,468.
Buyze, Edwin K. 3,338,339.
Cooper, William C. 3,302,768.
Day, John B. 3,298,476.
Dean, Albert G. 3,295,642.
Dean, Albert G. 3,295,766.
Dean, Albert G., and Else. 3,343,830.
Dean, Walter B. and A. G. 3,323,471.
Dyer, Daniel P., Jr. 3,298,223.
Dyer, Daniel P., Jr. 3,354,705.
Eggert, Walter S., Jr. 3,323,608.
Frecholm, Omar E. 3,297,117.
Graves, William L. 3,327,893.
Haas, Charles H. 3,298,444.
Haas, Charles H., and Mattia. 3,343,430.
Herring, James M., Jr. 3,224,277.
Kennel, Robert E., and Haug. 3,343,633.
Kerby, Floyd G. 3,317,237.
Kerby, Floyd G., and Kolt. 3,298,732.
Klauer, Leslie H., and McLure. 3,323,620.
Magyar, Peter F. 3,307,251.
Marcinik, Edward J., and Wolf. 3,333,755.
Mealing, Kenneth W. 3,348,699.
Nelson, Harvey J. 3,338,123.
Nelson, Harvey J. 3,349,602.
Newhouser, Richard J. 3,323,808.
Rebsamen, John A. 3,333,449.
Reynolds, Lewis F., Skypala, Heisler, and Kowe. 3,333,552.
Sites, Edward J. 3,360,427.
Stacy, Robert G., Almond, and Frecholm. 3,349,874.
Weglarz, Walter. 3,349,470.
Winnai, Henry F., and Whitsel. 3,354,535.
Witzgall, Herbert J. 3,302,955.
Wolf, Rudolph J., Jr. 3,328,653.
Zimmermann, Herbert P. 3,329,463.

Budd, James M. Decorative cut tree holder. 3,353,773, 11-21-67, Cl. 248—44.

Budd, Richard E.: *See*—
Ferris, Thomas G., Budd, and Easterling. 3,355,372.

Budd, Robert W. Magnetic sweepers. 3,343,675, 9-26-67, Cl. 209—215.

Budd, Wilbert H.: *See*—
Van Benthuysen, John D., and Budd. 3,341,799.

Budd, Wilbert H., and J. D. Van Benthuysen, to CTS Corp. Electrical control. 3,343,116, 9-19-67, Cl. 338—174.

Budd, William E.: *See*—
Albertson, Orris E., and Budd. 3,319,586.
Albertson, Orris E., and Budd. 3,351,030.

Budde, Carl A., to Electronic Specialty Co. Tunnel diode neuristor parity generator. 3,354,431, 11-21-67, Cl. 340—146.1.

Budde, Paul B., and H. Tolkmith, to The Dow Chemical Co. Fungicidal methods and compositions. 3,323,990, 6-6-67, Cl. 167—33.

Budde, Walter M., Jr., to Ashland Oil & Refining Co. Curing epoxy resins with hydroxy amino aliphatic nitriles. 3,356,647, 12-5-67, Cl. 260—47.

Buddecke, Charles L.: *See*—
Atchley, Blake K., Buddecke, and Tenery. 3,297,989.

Buddemeyer, Bruce D., and J. R. Moneymaker, to The Paniplus Co. Yeast leavened bakery products and shortening compositions. 3,360,375, 12-26-67, Cl. 99—91.

Budden, Robert G., to Roberts-Gordon Appliance, Corp. Gas burning infra-red heating device. 3,310,047, 3-21-67, Cl. 126—92.

Buddrus, Joachim: *See*—
Nerdel, Friedrich, Buddrus, Klaumann, Weyerstahl, and Ulm. 3,359,252.

Budenbender, Henry W., to Western Electric Co., Inc. Core sheating apparatus with adjustable core supports. 3,315,305, 4-25-67, Cl. 18—13.

Budesinsky, Zdenek: *See*—
Perina, Zdenek, Bydzovsky, and Budesinsky. 3,300,495.

Budinesevits, Andor, to Tavkozlesi Kutato Intezet. Method for the powder metallurgical forming of metal powders by hot casting. 3,351,464, 11-7-67, Cl. 75—212.

Budke, Carl P., to Pittsburgh Plate Gloss Co. Method and apparatus for recovering a naturally occurring brine containing sodium carbonate. 3,353,879, 11-21-67, Cl. 299—5.

Budnick, Edward G., to Plains Chemical Development Co. Manufacture of 4,4'-dichlorodiphenyl sulfone. 3,354,497, 11-28-67, Cl. 260—607.

Budnick, Gunther, deceased, by T. Budnick, legal representative of minor heirs. Method of measuring and/or controlling the relative movement of two moved bodies. 3,352,023, 11-14-67, Cl. 33—179.5.

Budnick, Thea: *See*—
Budnick, Gunther. 3,352,023.

Budnowski, Manfred, to Henkel & Cie. G.m.b.H. Process for the preparation of crystalline trigycidyl isocyanurate. 3,300,490, 1-24-67, Cl. 260—248.

Budnowski, Manfred, to Henkel & Cie. G.m.b.H. Hardened expoxide resins with high temperature stability of triglycidyl ester of isocyanuric acid and curing agent. 3,337,509, 8-22-67, Cl. 260—77.5.

Budreck, Frances, to Monarch Tool & Machinery Co. Hinged joint support for a rear vision mirror mounting. 3,322,388, 5-30-67, Cl. 248—289.

Budynas, William D.: *See*—
Crosby, Peter F., Wallis, and Budynas. 3,295,662.

Budzich, Mieczyslaw, and E. C. Hardesty, to Western Electric Co., Inc. Method of and apparatus for sorting coiled articles. 3,360,044, 1-24-67, Cl. 209—81.

Budzich, Tadeusz: *See*—
Bahniuk, Eugene, Budzich, and Thompson. 3,320,745.

Budzich, Tadeusz. Remote adjustment for pressure compensated pump setting. 3,298,316, 1-17-67, Cl. 103—37.

Budzich, Tadeusz. Inflatable bag fluid dispensing device. 3,360,102, 1-24-67, Cl. 222—386.5.

Budzich, Tadeusz. Fluid apparatus. 3,327,642, 6-27-67, Cl. 103—173

Budzich, Tadeusz. Differential bearing. 3,328,098, 6-27-67, Cl. 308—234.

Budzich, Tadeusz, to The Weatherhead Co. Hydraulic steering system. 3,333,416, 8-1-67, Cl. 60—52.

Budzich, Tadeusz. Hydrostatic mechanism. 3,339,660, 9-5-67, Cl. 180—44.

Budzich, Tadeusz. Speed responsive hydrostatic device. 3,354,978, 11-28-67, Cl. 180—44.

Budzich, Tadeusz, and A. Pitt. Hydrostatic mechanism. 3,360,064, 12-26-67, Cl. 180—14.

Budzinski, Daniel M. Golf tee leveling and driving instrument. 3,333,848, 8-1-67, Cl. 273—33

Bue, Richard C., to Sico Inc. Folding stage construction. 3,351,029, 11-7-67, Cl. 108—112.

Bue, Richard C., and J. Gutierrez, to Sico Inc. Portable floor. 3,310,919, 3-28-67, Cl. 52—127.

Buechel, Karl-Heinz, A. Kiskeri Bocz, and F. W. A. G. K. Korte, to Shell Oil Co. Production and use of diazaspiroalkanes. 3,341,517, 9-12-67, Cl. 260—239.

Buechler, Peter R.: *See*—
Kine, Benjamin B., Kalandiak, and Buechler. 3,345,203.

Buechler, William R., to Thompson Industries, Inc. Retractable seat belt construction. 3,323,831, 6-6-67, Cl. 297—388.

Buechler, William R., and R. G. Marshall, to The Ford Motor Co. Turn signal indicator pilot lamp serving an illuminating function. 3,328,757, 6-27-67, Cl. 340—80.

Buechner, Werner W. Heating device. 3,337,714, 8-22-67, Cl. 219—331.

Buechner, Werner W. Photographic timer and method of timing photographic treating processes. 3,349,685, 10-31-67, Cl. 95—89.

Buechner, Werner W. Photographic treating apparatus. 3,349,686, 10-31-67, Cl. 95—93.

Buechner, Werner W. Temperature controlling photographic bath. 3,349,688, 10-31-67, Cl. 95—96.

Buege, Kurt: *See*—
Jaekel, Werner, and Buege. 3,334,751.

Buehl, Russell C., and R. Schempp, to Crucible Steel Co. of America. Methods and apparatus for producing metal ingots. 3,344,840, 10-3-67, Cl. 164—122.

Buehler Corp., The: *See*—
Cummins, Clessie L., Jr. 3,355,108.
Smith, Morley S. 3,336,752.

Buehler, Fritz A., to Mobil Oil Corp. Stabilization of silicone fluids. 3,309,312, 3-14-67, Cl. 252—18.

Buehler, Fritz A., to Mobil Oil Corp. Stabilization of silicone fluids with an iron compound and a poly-carboxylic acid. 3,350,309, 10-31-67, Cl. 252—37.2.

Buehler, Fritz A., to Mobil Oil Corp. Stabilization of silicone fluids. 3,352,781, 11-14-67, Cl. 252—37.2.

Buehler, Verne T. Paint masking shield. 3,335,703, 8-15-67, Cl. 118—504.

Buehler, William J.: *See*—
Goldstein, David, Buehler, and Wiley. 3,352,650.
Rozner, Alexander G., and Buehler. 3,351,463.
Wang, Frederick E., Sycles, Clark, and Buehler. 3,352,722.

Buehler, Willy, A.G.: *See*—
Bleuer, Hans. 3,358,612.

Buehrle, William B., to Motorola, Inc. Multi-aperture core gate circuits. 3,307,158, 2-28-67, Cl. 340—174.

Bueker, Robert A., to National Research and Chemical Co. Flexible control for a roller transport system. 3,297,223, 1-10-67, Cl. 226—183.

Bueler, Richard C., to Wagner Electric Corp. Protector valve for a trailer brake system. 3,304,131, 2-14-67, Cl. 303—29.

Bueler, Richard C., to Wagner Electric Corp. Combined service and emergency brake system. 3,309,149, 3-14-67, Cl. 303—13.

Bueler, Richard C., to Wagner Electric Corp. Dual self-lapping control valve. 3,328,092, 6-27-67, Cl. 303—52.

Buell, Barry O., and J. P. Lindsey, to Phillips Petroleum Co. Signal translation by lowering apparent frequency. 3,328,755, 6-27-67, Cl. 340—15.5.

Buell, Bennett G., to American Cyanamid Co. Das triazine brightener. 3,309,363, 3-14-67, Cl. 260—240.

Buell, Bennett G., to American Cyanamid Co. Method for preparing 2-styrylnaphthoxazole compounds. 3,341,529, 9-12-67, Cl. 260—240.

Buell, Bennett G., to American Cyanamid Co. Process for treating and brightening cellulose fibers. 3,356,524, 12-5-67, Cl. 117—33.5.

Buell, Donald F.: *See*—
Joseph Raymond S., and Buell. 3,337,280.

Buell Engineering Co., Inc.: *See*—
Vandenboeck, Jean-Paul. 3,297,369.

Buell, Harry R., and R. L. Jenkins, to General Motors Corp. Transistorized multiple voltage regulation system. 3,299,276, 1-17-67, Cl. 307—34.

Buelow, William H., and G. Mihulowicz, to Rex Chainbelt, Inc. Retractable motor vehicle trailer. 3,317,193, 5-2-67, Cl. 259—161.

Buelow, William H., R. H. Fredrichsdorf, and A. W. Forrett, to Rex Chainbelt Inc. Concrete mixer drum. 3,328,006, 6-27-67, Cl. 259—161.

Buenger, Raymond. Logical device. 3,355,821, 12-5-67, Cl. 35—30.

Buerger, George R. Food storage means. 3,306,311, 2-28-67, Cl. 135—5.

Buerger, Herbert, to Del Krome Corp. Wheel trims for vehicle wheels with tires. 3,304,125, 2-14-67, Cl. 301—37.

Buerger, Herbert, to Del Krome Corp. Wheel rings, covers or other trims for wheels. 3,320,002, 5-16-67, Cl. 301—37.

Buerkner, Wolfgang, to Carl Schenck Maschinenfabrik GmbH, and Allwood, Inc. Apparatus for manufacturing felted materials. 3,340,127, 9-5-67, Cl. 156—372.

Buerschinger, Donald R., to Le Tourneau-Westinghouse Co. Fluid operated piston-type actuator. 3,331,287, 7-18-67, Cl. 91—52.

Buescher, Alfred J., and M. Krecic. Detent metering device. 3,336,874, 8-22-67, Cl. 103—41.

Buescher, William E., and D. R. Kerstetter, to Sylvania Electric Products Inc. Cathodes. 3,351,486, 11-7-67, Cl. 117—223.

Bueschner, Werner W. Photographic treating apparatus. 3,349,689, 10-31-67, Cl. 95—96.

Buesing, Arthur C.: *See*—
Brown, John W., Jr., Buesing, and Kaiser. 3,337,138.

Buettner, Hans: *See*—
Magg, Alfred, Haessle, Schreiner, Liebel, Bredschneider, Buettner, Peterson, and Schrodt. 3,340,749.

Buettner, Hugo, to Ampag G.m.b.H. & Co. KG. Apparatus for strapping packages. 3,324,789, 6-13-67, Cl. 100—27.

Buettner, Korad J. K.: *See*—
Charlson, Robert J., and Buettner. 3,315,518.

Buff, Fred, M. French, and W. N. Pollock, to General Foam Corp. Manufacture of expanded cellular products. 3,296,658, 1-10-67, Cl. 18—4.

Buffa, Anthony J., and S. Schneider, to United States of America, Army. Series multiple spark gap switch with a triggering terminal. 3,353,059, 11-14-67, Cl. 315—36.

Buffalo Brake Beam Co.: *See*—
Goods, Edward G. 3,301,353.
Goods Edward G. 3,307,659.
Pelikan, George A. 3,314,505.
Pelikan, George A. 3,314,509.

Buffalo Brake Beam Co.: *See*—Continued
Pelikan, George A. 3,337,006.
Pelikan, George A. 3,344,893.

Buffalo China, Inc.: *See*—
Bonning, Nelson G. 3,355,840.

Buffalo Molded Plastics, Inc.: *See*—
Bellamy, Reginald A. 3,330,437.
Di Addario, Alexander N. 3,295,714.

Buffery, Victor C., and H. M. Jefferys, to S. Smith & Sons (England) Ltd. Transmission and recording of signals in echo-sounding apparatus. 3,315,221, 4-18-67, Cl. 340—3.

Buffet, Jean, to Compagnie du Filage des Metaux et des Joints Curty. Hot working of materials. 3,335,589, 8-15-67, Cl. 72—41.

Buffet, Paul, to l'Electronique Appliquee. Thermal threshold responsive devices. 3,323,459, 6-6-67, Cl. 102—70.2.

Buffington, James F. Static phase converter. 3,349,316, 10-24-67, Cl. 321—52.

Buffington, Marvin A. Oscillometric monitoring system for sphygmomanometers. 3,315,662, 4-25-67, Cl. 182—2.05.

Bufkin, Dale E., and E. R. Russell, to McGraw-Edison Co. Toaster case. 3,334,576, 8-8-67, Cl. 99—385.

Buford, William H., Jr., and A. N. Thomas, Jr., to The Marquardt Corp. Radioisotope rocket. 3,306,045, 2-28-67, Cl. 60—203.

Bugat, Nives: *See*—
Lacroix, Yves, and Bugat. 3,337,532.

Bugel, Thomas E., to Union Carbide Corp. Thermoplastic polyhydroxyether with polychloroprene, and laminates thereof. 3,308,204, 3-7-67, Cl. 260—837.

Bugel, Thomas E., to Union Carbide Corp. Thermoplastic polyhydroxyether with nitrile rubber, and laminates thereof. 3,308,205, 3-7-67, Cl. 260—837.

Bugg, Kenly C. Tobacco pipe. 3,342,187, 9-19-67, Cl. 131—201.

Buggele, Norman J., and W. K. Grassauer, to Western Electric Co., Inc. Apparatus for orienting elongated articles having round and recessed ends respectively. 3,317,015, 5-2-67, Cl. 193—43.

Buggs, Anthony A., N. F. Kember, and R. A. Wells, to National Development Research Corp. Process for the recovery of gold and silver from gold and silver bearing aqueous cyanide liquors and ion exchange resin employed therein. 3,317,313, 5-2-67, Cl. 75—118.

Bugher, Frank E. Electric-arc disintegator head. 3,337,709, 8,22,67, Cl. 219—69.

Bugianesi, Robert L.: *See*—
Shen, Tsung-Ying, Ruyle, and Bugianesi. 3,352,849.

Bugl, Paul, to Hirtenberger Patronen-, Zundhutchen- und Metallwarenfabrik Aktiengesellschaft. Slide valve for suction control in two-stroke engines, particularly minimum-sized two-stroke engines. 3,330,262, 7-11-67, Cl. 123—73.

Bugter, Hans: *See*—
Houtzeel, Alexander, and Bugter. 3,337,090.

Bugyie, Steve F. Stabilizer bar for tandem axle arrangement. 3,328,047, 6-27-67, Cl. 280—104.5.

Buhler, Dieter. Storage tank for fluids. 3,327,883, 6-27-67, Cl. 220—5.

Bühler, Gebrüder: *See*—
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Buhler, Karl J., to Brown Boveri & Cie. Aktiengesellschaft. Tap changing device for transformer windings without interrupting the load current. 3,359,485, 12-19-67, Cl. 323—43.5.

Buhler, Warren G., to Oxy-Dry Sprayer Corp. Powder sprayer with flexible blades. 3,341,740, 9-12-67, Cl. 317—2.

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Bühler, Erwin, T. Bächtold, and K.-H. Hellmund, to E. Bühler. Tilting mechanism for induction furnace. 3,350,083, 10-31-67, Cl. 266—38.

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Buker, Harvey A., and L. S. Price, to The Jones Metal Products Co. Apparatus and method for making plastic article. 3,359,355, 12–19–67, Cl. 264—161.

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Bundschuh, John J., to Eastman Kodak Co. Sprocketless motion picture projector. 3,350,023, 10–31–67, Cl. 242—55.11.

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Bundy, Robert W., and T. M. Sheets, to E. I. du Pont de Nemours and Co. Method and apparatus for producing nonwoven webs. 3,296,678, 1–10–67, Cl. 28—1.

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Bunyard, Alan D., G. F. Kendall, and H. Lowenthal, to Colibri Lighters Ltd. 3,353,375, 11-21-67, Cl. 67—7.1.

Bunyea, Edwin D., to Phillips Petroleum Co. Method and apparatus for the uniform extruding of thermoplastic film. 3,341,388, 9-12-67, Cl. 156—244.

Buonaiuto, Robert B. Apparatus for wetting and feeding plastic beads into a mold. 3,351,979, 11-14-67, Cl. 18—5.

Burak, Nathan, to Philadelphia Quartz Co. Process for compounding rubber. 3,324,075, 6-6-67, Cl. 260—41.5.

Burant, Leonard J., K. R. Jones, and D. R. Wolter, to Globe-Union Inc. Cell partition for batteries. 3,306,775, 2-28-67, Cl. 136—90.

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Jordan, Merrill E., Cole, Burbine, and Petterson. 3,342,554.

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Burch, Homer A., to The Norwich Pharmacal Co. 4-substituted - 1 - alkyl - 6-(5-nitro-2-furyl)-1H-pyrazolo[3,4-]pyrimidines. 3,335,141, 8-8-67, Cl. 260—256.4.

Burch, Homer A., to The Norwich Pharmacal Co. 4-amino-1-alkyl - 6 - (5 - nitro-2-furyl)-1H-pyrazolo[3,4-d]pyrimidines. 3,350,397, 10-31-67, Cl. 260—247.5.

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Burgess, Robert H. Rotary fluid motor. 3,312,450, 4-4-67, Cl. 253—96.

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Burgess, Robin H., to Imperial Chemical Industries Ltd. Polymeric olefin compositions stabilized with a thiodialkanoic acid ester and a tri hydroxyaryl hydrocarbon. 3,357,946, 12-12-67, Cl. 260—45.85.

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Burian, Theodor, H. Plitschka, and G. Vogel, to International Standard Electric Corp. Multi-frequency code signalling system. 3,353,154, 11-14-67, Cl. 340—146.1.

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Bury, George J., to Illinois Tool Works Inc. Alternate action mechanism. 3,312,805, 4–4–67, Cl. 200—159.

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Bush, G. Frederick, F. R. Cotton, and J. I. Cruchet, to Ford Motor Co. Method for joining metal sheets. 3,350,536, 10–31–67, Cl. 219—92.

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Bush, George W., to Philadelphia Handle Co., Inc. Collapsible self-returning handle with hideaway linkage. 3,297,120, 1–10–67, Cl. 190—58.

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Bushey, Donald H. Envelope fasteners. 3,318,509, 5–9–67, Cl. 229—78.

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List, Heinz. 3,337,913.

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Byers, Donald J. Method and means for ascertaining visibility conditions. 3,299,769, 1-24-67, Cl. 88—14.

Byers, Edward V. Type levers having type heads molded thereon. 3,298,493, 1-17-67, Cl. 197—36.

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Bacon, Wilfred H., Byers, and Katchky. 3,303,505.

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Byers, Robert D., and J. G. Poor, to Allied Chemical Corp. Chromic acid-sulfuric acid solutions containing a mercuric ion catalyst for dissolving of copper and its alloys. 3,351,-555, 11-7-67, Cl. 252—79.2.

Byers, Robert S., and F. Finnegan, to Texas Instruments Inc. Heater for textile machinery. 3,355,784, 12-5-67, Cl. 28—62.

Byfield, Donald R., and G. G. Reintjes. Apparatus for lining kilns. 3,298,155, 1-17-67, Cl. 52—749.

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Byles, Theodore A., to Motorola, Inc. Ignition system. 3,318,295, 5-9-67, Cl. 123—148.

Byles, Theodore A., and R. T. Race, to Motorola, Inc. Electronic speedometer with transistor amplifier. 3,335,366, 8-8-67, Cl. 324—70.

Bylo, John J. Apparatus and method for carrying cargo. 3,323,659, 6-6-67, Cl. 214—15.

Bylo, John J. Cargo ship. 3,349,742, 10-31-67, Cl. 114—77.

Bylsma, Simon, and E. A. Madison, to Remcor Inc. Lawn spreader. 3,310,314, 3-21-67, Cl. 275—15.

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Bylund, Linton D., F. B. Rethwisch, and W. P. Woosley, to Reynolds Metals Co. Apparatus for production of fire sphenical metal particles. 3,344,469, 10-3-67, Cl. 18—2.5.

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Byron, Donald W., and J. D. Jones, Jr. Instrument for checking engine efficiency. 3,331,200, 7–18–67, Cl. 58—145.
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Byssing, George J., to Kaiser Gypsum Co., Inc. Hollow wall partition system. 3,349,529, 10–31–67, Cl. 52—241.
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Caballero, Edward A. Exhaust gas treatment device. 3,353,336, 11–21–67, Cl. 55—228.
Cabanaw, Eldred J., to Phillips Petroleum Co. Employing bottoms of a second fractionator as a refrigerant medium for first fractionator overhead. 3,309,882, 3–21–67, Cl. 62—28.
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Cabau, Georges C. M., to Societe d'Exploitation des Materiels Hispano-Suiza. Process for the fabrication of specially contoured electrodes. 3,356,598, 12–5–67, Cl. 204—15.
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Cabbage, John T., to Phillips Petroleum Co. Hydrogenation with purified reformer hydrogen. 3,328,476, 6–27–67, Cl. 260—667.
Cabello, Charles R., to Joseph Bancroft & Sons Co. Apparatus for packaging yarn. 3,332,126, 7–25–67, Cl. 28—21.
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Cable, Joseph W., to Cabot Corp. Radio frequency heating apparatus. 3,327,086, 6–20–67, Cl. 219—10.61.
Cable, Thomas H., Jr., G. W. Hinds, and W. J. Koepplin, to Union Carbide Corp. Process for melting and refining glass batch. 3,337,324, 8–22–67, C. 65—135.
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Jordan, Merrill E., Cole, Burbine, and Petterson. 3,342,554.
Jordan, Merrill E., and Hardy. 3,337,327.
Orzechowski, Adam, and MacKenzie. 3,326,877.
Stoddard, Stuart V., Hardy, and Gridley. 3,340,075.
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Williams, Frank R., and Hagopian. 3,319,895.
Cabot, Philip D., and R. D. Lowry, to Lowry Development Corp. Power impact hammer. 3,299,967, 1–24–67, Cl. 173—116.
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Caddell, Alfred M. Quick heat-transfer device having liquid recovery means. 3,313,102, 4–11–67, Cl. 60—31.
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Cadiou, Jean, to Societe Anonyme Andre Citroen. Steering systems of automobile vehicles. 3,298,708, 1–17–67, Cl. 280—96.
Cadiou, Jean, to Societe Anonyme Andre Citroen. Bench seat. 3,298,742, 1–17–67, Cl. 297—452.
Cadiou, Jean, to Andre Citroen Societe Anonyme. Regulating devices of barrel-type hydraulic transmission systems. 3,302,389, 2–7–67, Cl. 60—19.
Cadiou, Jean, to Andre Citroen, Societe Anonyme. Automobile vehicles fitted with disc brakes. 3,305,040, 2–21–67, Cl. 180—64.
Cadiou, Jean, to Societe Anonyme Andre Citroen. Aerodynamic valve for high-frequency operation. 3,312,249, 4–4–67, Cl. 138—42.
Cadiou, Jean, to Andre Citroen Societe Anonyme. Elastic universal sliding joint for driving half-shafts of motor vehicle driving wheels. 3,318,108, 5–9–67, Cl. 64—8.
Cadiou, Jean, to Société Anonyme André Citroen. Anti-roll device for vehicles. 3,337,233 8–22–67, Cl. 280—96.2.
Cadiou, Jean, to Societe Anonyme Andre Citroen. Longitudinal-elasticity wheel mounting of vehicle. 3,357,718, 12–12–67, Cl. 280—96.1.
Cadiou, Jean G., to Andre Citroen, S.A. Wheel mounting. 3,295,626, 1–3–67, Cl. 180—48.
Cadiou, Jean G., to Societe Anonyme Andre Citroen. Piston pumps. 3,306,231, 2–28–67, Cl. 103—178.
Cadiou, Jean G., to Societe Anonyme Andre Citroen. Ignition control apparatus. 3,329,136, 7–4–67, Cl. 123—117.
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Cadotte, John E. Acoustical panel having openings and ceramic surfacing material bonded to the panel. 3,348,996, 10–24–67, Cl. 162—114.
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Caero, Jose G. Segment actuated disk brake. 3,326,328, 6–20–67, Cl. 188—72.
Cafaro, Joe E. Cotton harvesting machine. 3,312,047, 4–4–67, Cl. 56—48.
Caffe, Edwin N., 50% to R. A. Di Meo. Web fastener. 3,304,022, 2–14–67, Cl. 242—74.2.
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Cafiero, Anthony F., and A. Vitagliano, to A. F. Cafiero & Co. Damper system for hot gas drying oven. 3,307,273, 3–7–67, Cl. 34—225.
Cafiero, Vincent J., to Art Metal Inc. Drawer pull and label holder. 3,300,887, 1–31–67, Cl. 40—325.
Cafissi, Alessandro, to Breda Meccanica Bresciana S.p.A. Device for adjusting the range of a missile. 3,343,767, 9–26–67, Cl. 244—3.27.
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Cagle, Wesley J., to J. I. Case Co. Valve for a seed planter of the hilldrop type. 3,330,235, 7–11–67, Cl. 111—51.
Cagle, William B., and R. S. Menne, to Bell Telephone Laboratories, Inc. Fast register control circuit. 3,350,692, 10–31–67, Cl. 340—172.5.
Cagno, Luigi, to Hamilton Float & Trowel Ltd. Trowelling blade assemblies. 3,296,946, 1–10–67, Cl. 94—45.
Cahen, Roger R., and J. P. Driffort, to CFT-Compagnie Francaise de Television. Method of making a flat wire grid. 3,357,459. 12–12–67, Cl. 140—71.5.
Cahero, Luciano S., to Process Research, Inc. Silk screen composition and process. 3,325,438, 6–13–67, Cl. 260—31.8.
Cahill, Gerald F., and I. J. Arons, to W. R. Grace & Co. Gasket-forming non-settling solvent-based rubber compositions containing lecithin. 3,344,099, 9–26–67, Cl. 260—23.7.
Cahill, John T. Propulsion system for watercraft. 3,335,691, 8–15–67, Cl. 115—12.
Cahill, Lysle D., to Data Corp. High information density data record and readout device. 3,307,020, 2–28–67, Cl. 235—61.11.
Cahill, William S., Sr. Mounting mandrel for buffing machines and the like. 3,310,081, 3–21–67, Cl. 144—288.
Cahn, Arno, R. R. Winnegrad, and A. H. Gilbert, to Lever Bros. Co. Perfume composition containing 2-(2-methyl-1-propenyl)-2,4,6-trimethyldihydro-4,5-pyran. 3,309,276, 3–14–67, Cl. 167—94.
Cahn, Arno, and A. H. Gilbert, to Lever Bros. Co. Ether ketones. 3,316,305, 4–25–67, Cl. 260—594.
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Cahn, Arno, and T. J. Kanlecki, to Lever Bros. Co. Detergent composition. 3,359,208; 12–19–67, Cl. 252—137.
Cahn, Charles R., and L. C. Murdock, to A. O. Smith Corp. Code programming means. 3,314,064, 4–11–67, Cl. 340—348.
Cahn, Robert L. Air passenger meals conveyor. 3,295,635, 1–3–67, Cl. 186—1.
Cahn, Robert P., and F. J. Herrmann, to Esso Research and Engineering Co. Distillation of heat sensitive compounds. 3,309,295, 3–14–67, Cl. 202—153.
Cahn, Robert P., and P. P. McCall, to Esso Research and Engineering Co. Cyclic gas separation process and system. 3,343,916, 9–26–67, Cl. 23—199.

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Cahoy, Roger P., and D. M. Coyne, to Gulf Oil Corp. Novel oxidation catalyst compositions and processes. 3,345,417, 10–3–67, Cl. 260—604.

Cail, Allan G.: *See*—
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Caille, Eugene V., to Associated Design & Mfg. Co., Inc. Card clothing. 3,325,866, 6–20–67, Cl. 19—114.

Caillet, Rene C. Retractable panel for closing horizontal or substantially horizontal openings. 3,342,245, 9–19–67, Cl. 160—193.

Caillet, René C. Device for clamping and lifting cargo hatch covers. 3,348,516, 10–24–67, Cl. 114—202.

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Cain, John F., ½ to A. A. Allen, and ½ to H. Z. Marx. Sonic transducer. 3,311,712, 3–28–67, Cl. 179—113.

Cain, Leonard L., and M. M. Rose, to Big Eight Implement Co. Eccentric vibrator. 3,349,854, 10–61–67, Cl. 172—40.

Cain, Robert M., to Kal-Equip Co., Inc. Compression tester. 3,338,102, 8–29–67, Cl. 73—420.

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Cairns, John C., and C. R. Suska, to The Stanley Works. Hinge. 3,349,427, 10–31–67, Cl. 16—128.

Cairns, John E., H. Cassmann, and A. H. Atherton, to Electric & Musical Industries Ltd. Non-magnetic metal mounting frame for pick-up tube targets for preventing microphony. 3,309,552, 3–14–67, Cl. 313—89.

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Cairns, Walter J., and J. B. Healy, to United Kingdom Atomic Energy Authority. Nuclear reactor installation. 3,356,581, 12–5–67, Cl. 176—40.

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Cairone, Anthony R., and R. D. Milos, Jr., to Westinghouse Electric Corp. Lightning arrester bracket and assembly. 3,335,213, 8–8–67, Cl. 174—2.

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Cais, Michael, and A. Mandelbaum: 75% to Technion Research and Development Foundation Ltd. Organometallic compounds and their preparation. 3,326,948, 6–20–67, Cl. 260—429.

Cais, Michael, and W. Taub, to Technion Research and Development Foundation Ltd. 6-substituted 2,3,5-trioxo-tetrahydropyrans and their 3-enol esters and ethers. 3,344,150, 9–26–67, Cl. 260—343.5.

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Calafut, Stanley G. and M. A. Inertial force sensor. 3,332,291, 7–25–67, Cl. 73—505.

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Calderhead, Henry J. (deceased, by C. E. Calderhead, administratrix), and P. F. Puljer, to Bird Electronic Corp. Coaxial line termination. 3,296,560, 1–3–67, Cl. 333—22.

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Caldwell, Henry C., and W. G. Groves, to Smith Kline & French Laboratories. 3-tropinyl esters of substituted acrylic and thio acrylic acids. 3,317,544, 5–2–67, Cl. 260—292.

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Caldwell, John R., to Eastman Kodak Co. Polyamides from N,N'-diphenyldiamines. 3,297,656, 1–10–67, Cl. 260—78.

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Caldwell, John R., to Eastman Kodak Co. Sulfate esters of hindered alcohols. 3,332,978, 7–25–67, Cl. 260—458.

Caldwell, John R., and E. H. Hill, to Eastman Kodak Co. Polysulfones of bicyclo[3.2.0]hept-2-en-6-one and derivatives. 3,297,640, 1–10–67, Cl. 260—63.

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Caldwell, John R., and W. J. Jackson, Jr., to Eastman Kodak Co. Three-dimensional polycyclic bisphenol polycarbonates and polyesters. 3,317,466, 5–2–67, Cl. 260—47.

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Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Sterically hindered segmented copolyesters based on polyethylene terephthalate. 3,331,890, 7–18–67, Cl. 260—860.

Caldwell, John R., K. P. Perry, and W. J. Jackson, Jr., to Eastman Kodak Co. 7,7-dialkylbicyclo [3.2.0] heptan-6-ols and esters thereof. 3,351,645, 11–7–67, Cl. 260—410.

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Caldwell, Richard L., to Mobil Oil Corp. Radioactive tracer technique for identifying formations contributing unwanted fluid to productive wells. 3,317,726, 5–2–67, Cl. 250—43.5.

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Callihan, James M., and C. M. Norris, to The General Industries Co. Record containers. 3,338,464, 8–29–67, Cl. 220—60.
Callihan, Robert E., to Automation Industries, Inc. Magnetizing and demagnetizing circuit having a controlled saturable core reactor. 3,300,688, 1–24–67, Cl. 317—123.
Callow, Alan E., and B. Harris, to British Titan Products Co. Ltd. Production of halides. 3,295,921, 1–3–67, Cl. 23—87.
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Calvert, Willard R. Automobile exhaust gas converter. 3,325,256, 6–13–67, Cl. 23—288.
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Camerini, Giorgio, deceased, by N. L. V., A. M. V., L. V. B., F., G., and M. Camerini, heirs, to Natro Cellulosa S.p.A. Industria Imballaggi Carta. Alignment mechanism. 3,342,480, 9–19–67, Cl. 271—58.
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Camerino, Bruno, B. Patelli, and R. Sciaky, to Societá Farmaceutic Italia. 6-formyl pregnadienes. 3,314,945, 4–18–67, Cl. 260—239.55.
Cameron, Alan F. Apparatus for forming an interproximal interlock. 3,344,842, 10–3–67, Cl. 164—236.
Cameron, Alexander. Image projector actuable by golf ball rotation to indicate direction and intensity of golf stroke. 3,359,005, 12–19–67, Cl. 273—185.
Cameron, Bruce M. Athletic shoe having rotatable cleat means. 3,354,561, 11–28–67, Cl. 36—2.5.
Cameron, Frank L., and W. C. Good, to Westinghouse Electric Corp. Method of making a fuse by securing the terminals by magnetic forming. 3,333,336, 8–1–67, Cl. 29—623.
Cameron, Grant M. and A. J. Duke, to Ciba Ltd. Epoxy resin compositions. 3,352,810, 11–14–67, Cl. 260—30.8.
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Cameto, Leon R., W. R. Evans, and R. J. Harris, to Mist Oe Gen Equipment Co. Oxygen tent atmosphere conditioning apparatus and method. 3,306,289, 2–28–67, Cl. 128—191.
Caminiti, Anthony D. Spare tire carriers and/or luggage racks. 3,349,977, 10–31–67, Cl. 224—42.1.
Camlet, John V. Tool construction. 3,319,904, 5–16–67, Cl. 242—85.1.
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Camp, Alfred L., to I. Terry. Backflow preventing valve. 3,346,001, 10–10–67, Cl. 137—218.
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Camp, John D., and H. Aldikacti, to General Motors Corp. Connecting rod construction. 3,338,113, 8–29–67, Cl. 74—579.
Camp, Raymond H., and A. S. Pratt, to Xerox Corp. Sensing device for detecting a sheet on a transport or drum. 3,301,975, 1–31–67, Cl. 200—61.41.
Camp, Sherman A. Hill climbing elevator. 3,312,307, 4–4–67, Cl. 187—10.
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Camp, Vernon D., and H. R. Payne, to The Seeburg Corp. Reversible motor driven regulator for dispensing mechanism for articles in staggered stacks. 3,295,716, 1–3–67, Cl. 221—9.
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Camp, William W., to Heinemann Electric Co. Circuit breaker case. 3,329,793, 7–4–67, Cl. 200—168.
Camp, William W., to Heinemann Electric Co. Circuit breaker mechanism. 3,329,913, 7–4–67, Cl. 335—38.
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Camp, William W., and W. L. Pitts, to Heinemann Electric Co. Remote operator for circuit breakers. 3,332,044, 7–18–67, Cl. 335—73.
Campagna, Frank J., L. V. Gregor, and D. P. Seraphim, to International Business Machines Corp. Integrated circuits with active elements isolated by insulating material. 3,354,360, 11–21–67, Cl. 317—234.
Campagna, Michael, to Marbill Co. Casual type shoe with heel-supporting wedge. 3,300,880, 1–31–67, Cl. 36—2.5.
Campagne, William V. L., to United States Steel Corp. Condensation of phthalic anhydride. 3,326,941, 6–20–67, Cl. 260—346.7.
Campagnuolo, Carl J., to United States of America, Army. Fluid jet momentum comparator. 3,323,532, 6–6–67, Cl. 137—81.5.
Campaiola, Michael, to M. Campaiola, P. Berchan, and M. Lamm, d.b.a./L.B.C. Watch Case & Jewelry Co. Adjustable watch band clasp. 3,339,248, 9–5–67, Cl. 24—74.
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Campbell, Andrew J., and R. L. Fischer, to Al-craft Mfg. Co. Worm and wheel gearing and housing therefor. 3,319,482, 5–16–67, Cl. 74—425.
Campbell, Arthur W., to Vego Chemical Corp. Cleaning composition. 3,349,036, 10–24–67, Cl. 252—101.
Campbell, Carlisle C., Jr., J. A. Chandler, and T. M. Grubbs. Discrete local altitude sensing device. 3,303,304, 2–7–67, Cl. 200—61.45.
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Campbell, Charles R., R. Johnson, and R. R. Spiegelhalter, to Monsanto Co. Process for regenerating ion exchange resins. 3,313,726, 4–11–67, Cl. 210—33.
Campbell, Charles R., M. J. Mathews III, and R. R. Spiegelhalter, to Monsanto Co. Polymeric impurity removal from an aqueous quaternary ammonium salt solution. 3,335,162, 8–8–67, Cl. 260—459.
Campbell, Charles R., and R. Johnson, to Monsanto Co. Recovery of dicarboxylic acid anhydrides from aqueous acid solution. 3,359,283, 12–19–67, Cl. 260—345.9.
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Cross, James M., Metzger, and Campbell. 3,351,650.
Campbell, Clyde D., J. M. Cross, and S. H. Metzger, Jr., to Mobay Chemical Co. Cycloaliphatic tetraisocyanates. 3,330,850, 7–11–67, Cl. 260—453.
Campbell, Craig C., J. W. Schick, and J. H. Stockinger, to Mobil Oil Corp. Plywood bonded with a resinous composition comprising a ketone-aldehyde resin and a chemically basic clay. 3,321,358, 5–23–67, Cl. 161—261.
Campbell, David, M. C. Lee, and J. F. Mann, to United States of America, Navy. Beam capture missile guidance system. 3,356,314, 12–5–67, Cl. 244—3.13.
Campbell, David D., to General Motors Corp. Vehicle body ventilation system. 3,330,199, 7–11–67, Cl. 98—2.
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Campbell, Floyd L., and R. W. Wight, to Technical Products Engineering Co. Status display assembly. 3,340,637, 9–12–67, Cl. 40—130.
Campbell, Frank W., and D. A. Lehr, to The Archillthic Co. Package adaptive fiber roving dispenser. 3,305,150, 2–21–67, Cl. 226—97.
Campbell, Frank W., and D. A. Lehr, to The Archillthic Co. Glass reinforced roof system. 3,336,179, 8–15–67, Cl. 161—72.
Campbell, Gary L., to Deere & Co. Locking device for adjustable vehicle seats. 3,347,512, 10–17–67, Cl. 248—429.
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Cislak, Francis E., McGill, and Campbell. 3,352,873.
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Campbell, Harold M.: *See*—
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Babcock, John C., and Campbell. 3,359,287.
Campbell, J. Allan, to The Upjohn Co. 6-difluoromethyl-17-hydroxyprogesterones and 17-acylates thereof. 3,331,863, 7–18–67, Cl. 260—397.4.
Campbell, J. Allan, and J.C. Babcock, to The Upjohn Co. 7α,17,17-trimethyl-18-nor-$\Delta^{13(20)}$-steroids of the androstane series. 3,341,411, 9–12–67, Cl. 167—65.
Campbell, J. Allan, and J. E. Pike, to The Upjohn Co. 6-monofluoromethyl-17α-hydroxyprogesterones and 17-acylates thereof. 3,341,560, 9–12–67, Cl. 260—397.4.
Campbell, J. Allan, and J. C. Babcock, to The Upjohn Co. 4,7-dimethyl androstene derivatives. 3,357,888, 12–12–67, Cl. 167—65.
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Campbell, James W. Combination mop and bucket. 3,341,876, 9–19–67, Cl. 15—1.
Campbell, Joe A., to Lockheed Aircraft Corp. Flow controlling baffle for submersible centrifugal pumps. 3,299,820, 1–24–67, Cl. 103—88.
Campbell, John E., to Polaroid Corp. Photographic film unit having a resilient liquid trapping member. 3,320,065, 5–16–67, Cl. 96—76.
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Campbell, John G. Impedance matching ferrite transformer wherein center conductor of associated coaxial cable forms primary winding. 3,327,253, 6–20–67, Cl. 333—33.
Campbell, John G. Mounting for semiconductor devices. 3,340,345, 9–5–67, Cl. 174—15.
Campbell, John R., to Monsanto Co. Polyphenyl thioethers. 3,321,529, 5–23–67, Cl. 260—609.
Campbell, John R., and R. E. Hatton, to Monsanto Co. Polyphenyl thioethers. 3,311,665, 3–28–67, Cl. 260—609.
Campbell, John R., and R. E. Hatton, to Monsanto Co. Polyphenyl thioethers. 3,321,403, 5–23–67, Cl. 252—48.2.
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Campbell, Paul G., and J. R. Wright, to United States of America, Commerce. Method of oxidizing asphalt flux with oxides of nitrogen. 3,318,797, 5–9–67, Cl. 208—6.
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Campbell, Ramsey G., and L. J. Hoy, to Stauffer Chemical Co. Manufacture of diborane and related boron-containing substances. 3,306,704, 2–28–67, Cl. 23—204.
Campbell, Richard H., Jr., to The Seeburg Corp. Automatic rhythm device. 3,358,068, 12–12–67, Cl. 84—1.01.
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Campbell, Robert H., to R. L. Kuss & Co., Inc. Molding machine and process. 3,350,747, 11–7–67, Cl. 18—30.
Campbell, Robert H., and S. G. Belak, to Sun Oil Co. Method of reducing caking tendency of urea-paraffin wax fertilizer. 3,301,656, 1–31–67, Cl. 71—28.
Campbell, Robert H., and H. L. Johnson, to Sun Oil Co. Slow release fertilizer comprising urea and petroleum waxes, and method of making. 3,306,728, 2–28–67, Cl. 71—28.
Campbell, Robert H., and W. R. Cherry, to Sun Oil Co. Method of preparing slow release fertilizers containing a urea-paraffin wax adduct. 3,314,778, 4–18–67, Cl. 71—28.
Campbell, Robert H., and W. L. Huntington, to Sun Oil Co. Method of preparing particulate coated with urea-wax adduct. 3,331,677, 7–18–67, Cl. 71—28.
Campbell, Robert K., to R. K. Campbell Enterprises, Inc. Chalk line reel. 3,311,319, 3–28–67, Cl. 242—100.
Campbell, Robert L., and G. P. Deeter, to United Aircraft Products, Inc. Plate and fin heat exchanger. 3,305,010, 2–21–67, Cl. 165—166.
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Allen, Robert R., and Campbell. 3,313,834.
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Campbell, Robert W., to Chevron Research Co. Cyclic sulfide process. 3,345,381, 10–3–67, Cl. 260—329.
Campbell, Robert W., E. M. Sawyer, D. O. Ruff, T. E. Kirk, L. M. Ramey, and W. D. Worrell, to General Motors Corp. Vehicle propulsion and control system. 3,297,926, 1–10–67, Cl. 318—138.
Campbell, Robert W., E. M. Sawyer, D. O. Ruff, T. E. Kirk, L. M. Ramey, and W. D. Worrell, to General Motors Corp. Inductor device. 3,320,565, 5–16–67, Cl. 336—123.
Campbell, Rodney B., and E. W. Strull. Dual seal shutoff valve. 3,356,055, 10–31–67, Cl. 251—89.5.

Campbell, Ross L., Jr., to The Industrial Nucleonics Corp. 3,352,499, 11–14–67, Cl. 241—21.
Campbell, Roy E., to National Sulphur Co. Method for prilling sulphur. 3,334,159, 8–1–67, Cl. 264—13.
Campbell, Ruffner, and W. L. Hayes, Jr., to International Resistance Co. Lead straightening machine. 3,348,586, 10–24–67, Cl. 140—147.
Campbell, Theodore A. Torque wrench. 3,304,772, 2–21–67, Cl. 73—139.
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Campbell, Virginia K. Electrically heated windshield washing nozzle in time delay circuit. 3,319,891, 5–16–67, Cl. 239—130.
Campbell, Walter G., W. V. A. Clark, Jr., and C. B. Converse, to Buzzards Corp. Oceanography probe. 3,339,407, 9–5–67, Cl. 73—170.
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Campbell, William W., E. Leatham, and A. H. Pack, to Harbison-Walker Refractories Co. Material handling. 3,298,840, 1–17–67, Cl. 106—58.
Campbell, William W., and C. E. Rossi, to Harbison-Walker Refractories Co. Heat transfer unit. 3,311,994, 4–4–67, Cl. 34—168.
Campbell, William W., C. E. Rossi, and W. R. Good, to Harbison-Walker Refractories Co. Shaft kiln. 3,355,158, 11–28–67, Cl. 263—29.
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Campo, Julio H., to North American Aviation, Inc. Automatic controller for fluid systems. 3,338,547, 8–29–67, Cl. 251—118.
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Morton, Geoffrey W. 3,309,114.
Canada, Her Majesty The Queen in right of, as represented by the Minister of Mine and Technical Surveys: *See*—
Machin, William D., Montgomery, and Parsons. 3,352,635.
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Henderson, Ian H. S., and Ladan. 3,326,721.
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Blackburn, Robert William, Brown, and Adams. 3,357,889.
Eastcott, Peter D., and Spibey. 3,325,683.
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Hoey, Gordon R., and Hudson. 3,318,663.
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Delcellier, Henri A. 3,313,413.
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Mansell, Ivor. 3,306,553.
Mansell, Ivor. 3,324,769.
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Watkins, Cecil H. 3,349,959.
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Clarke, Herbert W. 3,343,164.
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Hancock, Kenneth E. 3,336,542.
Canadian Patents and Development Ltd.: *See*—
Bleackley, William J. 3,296,558.
Chaklader, Asoke C. D., and McKenzie. 3,348,957.
Daw, Donald F. 3,332,282.
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Johnson, Wesley W. 3,316,670.
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Canadian Refractories Ltd.: *See*—
Rigby, George R. 3,299,600.
Rigby, George R. 3,301,690.
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Canadian Stackpole Ltd.: *See*—
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Canadian Vendbar Industries Ltd.: *See*—
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Canadian Westinghouse Co., Ltd.: *See*—
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Canalizo Carlos R., to Otis Engineering Corp. Valves. 3,356,-104, 12–5–67, Cl. 137—516.29.
Canalizo, Carlos R., to Otis Engineering Corp. Large well bore drilling apparatus. 3,360,061, 12–26–67, Cl. 175—324.
Canazzi, Henry D. Boat hulls. 3,316,874, 5–2–67, Cl. 114—67.
Cancilla, Vincent W., to E. D. Jones Corp. Method and apparatus for locking a paper pulp refiner. 3,311,309, 3–28–67, Cl. 241—30.
Cancio, Leopoldo V., and R. D. Soutter, to E. I. du Pont de Nemours and Co. Apparatus for forming two component yarns. 3,320,633, 5–23–67. Cl. 18—8.
Canerinus, Hendrik, to Inpower Works (Proprietary) Ltd. Hydraulic fluid torque transmitter. 3,334,528, 8–8–67, Cl. 74—752.
Canerinus, Hendrik, and E. H. Friedmann, to Inpower Works (Proprietary) Ltd. Inertia fluid torque transmitter. 3,302,489, 2–7–67, Cl. 74—752.
Canerinus, Hendrik, and E. H. Friedmann, to Inpower Works (Proprietary) Ltd. Fluid torque transmitter. 3,323,390, 6–6–67, Cl. 74—752.
Canerinus, Henrik, and P. Van Jason, to Inpower Works (Proprietary) Ltd. Fluid torque transmitter. 3,334,529, 8–8–67, Cl. 74—752.
Candela, Frank. Mounting base for marine antennas. 3,304,-037, 2–14–67, Cl. 248—44.
Candela, Giovan B., to The Formsprag Co. Self-neutralizing manual override clutch. 3,335,832, 8–15–67, Cl. 192—48.
Candelise, Alfred, to General Motors Corp. Ignition timing device. 3,301,242, 1–31–67. Cl. 123—117.
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Candito, Pantaleone A. Beverage mixers. 3,327,911, 6–27–67, Cl. 222—572.
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Candor, Robert R. and J. T. 3,344,447.
Candor, Robert R. and J. T. 3,358,301.
Candor, Robert R., to Whirlpool Corp. Laundry machine and method. 3,358,302, 12–19–67, Cl. 8—159.
Candor, Robert R. and J. T. Laundry machine with suction means for washing and drying. 3,330,136, 7–11–67, Cl. 68—18.
Candor, Robert R. and J. T. Material treating machine and method. 3,344,447, 10–3–67, Cl. 8—159.
Candor, Robert R. and J. T., to Whirlpool Corp. Laundry machine and method. 3,358,301, 12–19–67, Cl. 8—159.
Cane, Albert: *See*—
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Canevari, Gerard P., and R. J. Fiocco, to Esso Research and Engineering Co. Treatment of Athabasca tar sands froth. 3,331,765, 7–18–67, Cl. 208—11.
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Cann, Arthur S. Multiple size rectilinear tube beading tool. 3,339,388, 9–5–67, Cl. 72—75.
Cann, Arthur S., and O. Senese. Faucet handle remover. 3,334,405, 8–8–67, Cl. 29—257.
Cann, Everett D.: 40% to W. T. Neiman. Method of treating cellulosic pulping waste liquors with magnesium oxide to form a complex prior to burning thereof. 3,296,064, 1–3–67, Cl. 162—36.
Cann, Gordon L., to Electro-Optical Systems, Inc. Plasma accelerator using Hall currents. 3,309,873, 3–21–67, Cl. 60—203.
Cann, Gordon L., to Electro-Optical Systems, Inc. Controlled fusion devices. 3,324,316, 6–6–67, Cl. 310—11.
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Cannell, Lawrence G., and E. F. Magoon, to Shell Oil Co. Olefin dimerization process. 3,355,510, 11–28–67, Cl. 260—683.15.
Canner, Herman M., to Sterling Detroit Co. Die casting apparatus. 3,323,628, 8–1–67, Cl. 164—269.
Canney, Robert S., to General Electric Co. Current transformers having multi-turn primary windings. 3,321,725, 5–23–67, Cl. 336—173.
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Cannon, Harry B., Sr., H. B. Cannon, Jr., and H. N. Cannon. Apparatus and method for mining granular ore. 3,311,414, 3–28–67, Cl. 299—18.
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Cannon, Peter, to General Electric Co. Graphite-catalyst charge assembly for the preparation of diamond. 3,317,035, 5–2–67, Cl. 206—47.
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Cannon, Peter, and E. T. Conlin II, to General Electric Co. Superconducting composite articles. 3,301,643, 1–31–67, Cl. 29—195.
Cannon, Raymond E., to Beckman Instruments, Inc. Sample conveying chain for liquid scintillation spectrometer. 3,348,658, 10–24–67, Cl. 198—131.
Cannon, Raymond E., to Beckman Instruments, Inc. Conveyor drive and indexing mechanism for liquid scintillation spectrometers. 3,354,740, 11–28–67, Cl. 74—436.
Cannon, Robert B. Header structure for heat transfer apparatus. 3,323,585, 6–6–67, Cl. 165—141.
Cannon, Robert B., to Hoover Ball and Bearing Co. Bottom discharge bin. 3,343,725, 9–26–67, Cl. 222—129.
Cannon, William N., to Eli Lilly and Co. Soluble salts of heterocyclic iodine-containing bactericides. 3,332,991, 7–25–67, Cl. 260—535.
Cannon, William N., G. B. Kline, and M. Dwight, to Eli Lilly and Co. Nitro benzonitrile antimicrobial compositions and process. 3,353,939, 11–21–67, Cl. 44—75.
Canny, Floyd H., to SCM Corp. Escapement mechanism for typewriters. 3,312,322, 4–4–67, Cl. 197—82.
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Cantatore, Giuseppe, to Montecatini Edison S.p.A. Polyolefins containing polyamides obtained by the reaction of N,N'-bis(omega - carboalkoxyalkyl)piperazine with diamines. 3,331,888, 7–18–67, Cl. 260—857.

Canteen Corp.: *See*—
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Cantella, Michael J., to United States of America, Navy. Pulse discriminator employing delay-lines and threshold-circuit for selecting pulses of certain widths and amplitudes. 3,315,168, 4–18–67, Cl. 328—112.
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Carignan, Donald A., and Canterbury. 3,354,938.
Canterino, Peter J., and M. L. Gallaugher, to Phillips Petroleum Co. Cracking of high molecular weight ethylene polymers and resulting products. 3,316,231, 4–25–67, Cl. 260—93.7.
Cantleberry, Donald R., to General Motors Corp. Tilt and telescoping steering wheel. 3,342,080, 9–19–67, Cl. 74—493.
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Cantoni, John D., A. W. Gerrans, and R. W. Selleck. Method for pitting drupaceous fruit. 3,333,618, 8–1–67, Cl. 146—237.
Cantor, Abraham, O. E. Neracher, and M. W. Winicov, to West Laboratories, Inc. Acidic aqueous iodine concentrates. 3,308,014, 3–7–67, Cl. 167—17.
Cantor, Abraham, and M. W. Winicov, to West Laboratories, Inc. Germicidal nonionic-detergent iodine compositions. 3,355,386, 11–28–67, Cl. 252—106.
Cantor, Abraham, W. Schmidt, and M. W. Winicov, to West Laboratories, Inc. Alkaline germicidal cleaner with color indicator. 3,355,392, 11–28–67, Cl. 252—99.
Cantor, Clarence, to United States of America, National Aeronautics and Space Administration. Amplifier clamping circuit for horizon scanner. 3,348,053, 10–17–67, Cl. 250—206.
Cantor, Harry A., G. J. Giuliano, and J. A. Vona, to Celanese Corp. Emulsions of lactone plasticized polymers. 3,328,329, 6–27–67, Cl. 260—29.6.
Cantor, Paul A., and R. E. Kesting, to United States of America, Interior. Polyvinyl carbonate desalination membrane and a method of producing the same. 3,332,894, 7–25–67, Cl. 260—2.5.
Cantrall, Edward W., and S. Bernstein, to American Cyanamid Co. 4,6-indazole derivatives of estrone and estradiol-17β. 3,306,894, 2–28–67, Cl. 260—239.5.
Cantrall, Edward W., J. P. Joseph, and S. Bernstein, to American Cyanamid Co. Substituted 17β-androst-4-en-3-one and 19-norandrost-4-en-3-one and method of preparing the same. 3,334,013, 8–1–67, Cl. 167—65.
Cantrel, Kenneth E.: *See*—
Reinert, Andrew J., and Cantrel. 3,335,051.
Reinert, Andrew J., and Cantrel. 3,340,142.
Cantrell, James H.: *See*—
Faro, Charles, and Cantrell. 3,330,211.
Cantrell, James H., and C. Faro, to The Flintkote Co. Mixing and spraying apparatus. 3,304,010, 2–14–67, Cl. 239—142.
Cantrell, Ronald S., to The Bauer Bros. Co. Hydro-cyclone separator. 3,358,832, 12–19–67. Cl. 209—211.
Cantrell, Ronald S., to The Bauer Bros., Co. Centrifugal separator. 3,358,833, 12–19–67, Cl. 209—211.
Canuel, George E., to United Aircraft Corp. Aerodynamic-type flameholder. 3,328,958, 7–4–67, Cl. 60—39.72.
Can-Vevor, Inc.: *See*—
Johnson, Ralph K. 3,313,400.
Canzler, Carl: *See*—
Kranz, Berthold. 3,297,453.
Cap, Bruno: *See*—
Stambera, Adolf, and Cap. 3,299,975.
Capaldi, Eugene C., N. D. Field, and L. N. Leum, to The Atlantic Refining Co. Pentamethylstyrene, homopolymer thereof, and its preparation. 3,303,176, 2–7–67, Cl. 260—93.5.
Caparone, Michael J., to Robertshaw Controls Co. Insulator insert for thermal sensing device. 3,306,109, 2–28–67, Cl. 73—362.3.
Caparrelli, Frederick: *See*—
Goodyear, Chalmers, Connolly, and Caparrelli. 3,351,057.
Cape, Arthur T., to Coast Metals, Inc. Nickel-base brazing alloys. 3,303,024, 2–7–67, Cl. 75—171.
Cape, Arthur T., to Coast Metals, Inc. Manganese-base brazing alloys. 3,316,086, 4–25–67. Cl. 75—134.
Cape, Arthur T., to Powder Melting Corp. Method of and apparatus for depositing metal powder. 3,352,492, 11–14–67, Cl. 239—85.
Cape, Arthur T., to Coast Metals, Inc. Brazing alloy. 3,355,-283, 11–28–67, Cl. 75—151.
Cape, Arthur T., to Coast Metals, Inc. Cobalt-base alloys. 3,355,287, 11–28–67, Cl. 75—170.
Cape, Arthur T., to Coast Metals, Inc. Coated manganese-containing alloys. 3,359,084, 12–19–67, Cl. 29—194.
Cape Marine Propulsion Ltd.: *See*—
Warren, Reginald. 3,347,045.
Cape, Richard A. G., to Dominion Bridge Co. Ltd. Space decks. 3,336,718, 8–22–67, Cl. 52—650.
Cape, Richard A. G., to Dominion Bridge Co., Ltd. Web bender for forming a continuous V-contoured web. 3,352,330, 11–14–67, Cl. 104—105.
Cape Tear Feed Products, Inc.: *See*—
Evans, Monroe E., and Willin. 3,313,397.
Capek, Richard C., to Symons Mfg. Co. Concrete wall form panel with particular tie rod assembly. 3,357,672, 12–12–67, Cl. 249—45.
Capewell Mfg. Co., The: *See*—
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Crave, Wilbur J. 3,357,462.
Kane, Albert J. 3,331,265.
Caplau, Andre, to Societe Fives Lille-Cail. Device for sensing compressive forces. 3,319,461, 5–16–67, Cl. 73—88.5.
Caplaux, Jacques: *See*—
Sahores, Jean, Vannxem, and Caplaux. 3,332,577.
Capillon, Edward A., to Engelhard Industries, Inc. Composite material of a ceramic silver gold alloy, and a nickel alloy. 3,342,568, 9–19–67, Cl. 29—195.
Capitol Hardware Mfg. Co.: *See*—
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Capitol Refrigeration, Inc.: *See*—
Anglin, William E. 3,355,908.
Capizzi, Victor T.: *See*—
Hering, Henry H., Jr., and Capizzi. 3,319,354.
Caplan, Benjamin. Ozone generators. 3,309,304, 3–14–67, Cl. 204—313.
Caplan, Jacob P. Conveyor chains. 3,338,378, 8–29–67, Cl. 198—140.
Caples, I. D.: *See*—
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Caplinger, Eugene, and S. L. Ellenberg, to Electro-Optical Systems, Inc. Ion propulsion system with ion engine utilizing power supply hot surface. 3,308,622, 3–14–67, Cl. 60—202.
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Caporael, Frank T., to Photolume Corp. Apparatus for dark field background photography of medical and biological specimens. 3,308,716, 3–14–67, Cl. 88—24.
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Caporali, Giorgio, N. Giordano, N. Ferlazzo, and Q. Ottaviani, to Montecatini Edison S.p.A. Catalytic process for the preparation of nitriles. 3,347,899, 10–17–67, Cl. 260—465.3.
Caporossi, Daniel: *See*—
Schneider, Charles, and Caporossi. 3,325,615.
Capossela, Anthony C.: *See*—
Mancuso, John J., and Capossela. 3,352,686.
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Capozzi, Anthony J., to International Business Machines Corp. Record format control circuit. 3,312,948, 4–4–67, Cl. 340—172.5.
Capozzi, Anthony J., and R. A. Jones, to International Business Machines Corp. Variable gap filing system. 3,299,-411, 1–17–67, Cl. 340—172.5.
Capp, Clifford W., and R. B. Ward, to The Distillers Corp. Ltd. Production of alkenyl benzenes. 3,318,966, 5–9–67, Cl. 260—669.
Capp, Clifford W., E. J. Gasson, P. E. Grindlay, and B. Wood, to The Distillers Co. Ltd. Production of alkenyl benzenes. 3,336,408, 8–15–67, Cl. 260—669.
Cappa, Giulio: *See*—
Barassi, Carlo, and Cappa. 3,344,006.
Fausti, Fulcieri, and Cappa. 3,339,610.
Capparella, Anthony C. Self-lubricating pins. 3,343,232, 9–26–67, Cl. 24—161.
Capparelle, Carl R. Tire pressure gauge. 3,303,696, 2–14–67, Cl. 73—146.8.
Cappel, Klaus L., to The Franklin Institute. Motion simulator. 3,295,224, 1–3–67, Cl. 35—12.
Cappel, Klaus L., to United States of America, Navy. Ballistic recoverable space bio-probe. 3,311,323, 3–28–67, Cl. 244—1.
Cappel, Ralph E., to Lincoln Mfg. Co., Inc. Storage apparatus. 3,339,795, 9–5–67, Cl. 220—93.
Cappelle, Norman D.: *See*—
Naber, Joseph, Fox, Chalmers, Ma, Cummings, and Cappelle. 3,307,414.
Cappelli, Sylvie S. Shoe butler. 3,331,513, 7–18–67, Cl. 211—34.
Cappon, Arthur M.: *See*—
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Capponi, Miro, J. Guenthard, and C. Senn, to Sandoz Ltd. (also known as Sandoz A.G.). Fixing dyes on cellulose with bis(beta-haloalkyl) amines. 3,338,658, 8–29–67, Cl. 8—39.
Capps, David B., to Parke, Davis & Co. Heterocyclic amides and methods for their production. 3,311,614, 3–28–67, Cl. 260—239.3.
Capps, John P., to Minnesota Mining and Mfg. Co. Electrographic recording apparatus having a porous carrier web for electroscopic print powder. 3,355,743, 11–28–67, Cl. 346—74.
Capps, Randolph P., to Multi-Zoner, Inc. Heating and cooling temperature control for a plurality of zones. 3,297,250, 1–10–67, Cl. 236—1.

Cappuccio, Vittorio, P. Maltese, and F. Vacanti, to Montecatini Edison S.p.A. Readily dyeable compositions consisting of isotactic polypropylene and from 0.1 to 20% of a member selected from the group consisting of polyamides, polyurethanes, polyesters and polyalkyleneimine reaction products. 3,312,755, 4-4-67, Cl. 260—859.

Cappuccio, Vittorio, and U. Riboni, to Montecatini Edison S.p.A. Dye-receptive polyolefin fiber containing saturated, unsubstituted dicarboxylic acid of acid anhydride. 3,320,-226, 5-16-67, Cl. 260—93.7.

Cappuccio, Vittorio, and L. Canonica, to Montecatini Edison S.p.A. Process for the regeneration of polyethylene terephthalate. 3,350,328, 10-31-67, Cl. 260—2.3.

Cappuzzello, Joseph J. Garment hanging apparatus. 3,310,-179, 3-21-67, Cl. 211—113.

Caprara, Giuseppe, M. Ghirga, and G. Cevidalli, to Montecatini Edison S.p.A. Process for preparing cycloalkanonoximes. 3,344,187, 9-26-67, Cl. 260—566.

Capre Co.: *See*—
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Caprio, Anthony G.: *See*—
Deighton, Ward, and Caprio. 3,343,687.

Caprio, Gerald L., to Motorola Inc. Television receiver AGC circuit. 3,349,173, 10-24-67, Cl. 178—7.3.

Capron, Robert W.: *See*—
Paglee, Mario R., and Capron. 3,320,420.

Caps Research Ltd.: *See*—
Jeffree, John H. 3,295,407
Seib, Martin R. P. 3,323,012.

Capsuto, Leon M., and F. E. Davis, Jr., to Mobil Oil Corp. Maintaining the selectivity of platinum group metal reforming catalyst. 3,330,761, 7-11-67, Cl. 208—139.

Capsuto, Leon M., and F. E. Davis, Jr., to Mobil Oil Corp. Method of stabilizing platinum group metal reforming catalyst. 3,347,782, 10-17-67, Cl. 208—138.

Capuano, Dominick: *See*—
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Capuano, Italo A., to Union Carbide Corp. Continuous polarographic analysis for low hydrogen sulfide concentrations. 3,304,243, 2-14-67, Cl. 204—1.

Capuano, Italo A., to Union Carbide Corp. Organic carbon determination and measurement. 3,322,504, 5-30-67, Cl. 23—230.

Caputi, William J., Jr., to Cutler-Hammer, Inc. Pulse-type object detection apparatus. 3,354,456, 11-21-67, Cl. 343—17.2.

Caputo, William R.: *See*—
Snozzo, John, E. and B. Ward, and Caputo. 3,305,850.

Capuzzi, Rosemary A.: *See*—
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Car-Venience Parts Mfg., Co.: *See*—
Candiotti, Charles W., and Butts. 3,326,031.

Carabateas, Philip M., to Sterling Drug Inc. 2-tertiaryaminomethyl-N-acylanilines. 3,360,562, 12-26-67, Cl. 260—562.

Caracciolo, Edward A., to General Micro-Electronics Inc. Assembly for packaging microelectronic devices. 3,317,287, 5-2-67, Cl. 29—193.

Caracristi, Virginius Z.: *See*—
Frey, Donald J., Jonakin, and Caracristi. 3,340,830.

Caradco Inc.: *See*—
Bell, Forrest F. 3,332,171.

Caraher, James M., to United States of America, Navy. Water-cooled, self-regulating, exhaust nozzle for a submarine thermal power plant. 3,319,423, 5-16-67, Cl. 60—242.

Caramanna, George, to General Motors Corp. Removable closure for vehicle bodies. 3,348,877, 10-24-67, Cl. 296—137.

Carando Machine Works: *See*—
McCoy, Thomas A. 3,306,473.

Carangelo, Salvatore, and J. Fine, to Interchemical Corp. Apparatus for mixing materials in the substantial absence of air. 3,343,817, 9-26-67, Cl. 259—122.

Caravella, Frank S. Can piercing device. 3,305,924, 2-28-67, Cl. 30—16.

Caravetta, Daniel J., and F. G. Lentz, to Western Electric Co., Inc. Apparatus for feeding and orienting plate-like articles having eccentrically located projections. 3,313,-396, 4-11-67, Cl. 198—33.

Caraway, Guy C. Stepping drive. 3,329,033, 7-4-67, Cl. 74—166.

Carbajal, Bernard G., III, and B. G. Slay, Jr., to Texas Instruments Inc. Production of thin organic polymer by screened D.C. glow discharge. 3,318,790, 5-9-67, Cl. 204—168.

Carbajal, Bernard G., III, and B. G. Slay, Jr., to Texas Instruments Inc. Apparatus for polymerizing and forming thin continuous films using a glow discharge. 3,344,055, 9-26-67, Cl. 204—312.

Carbary, Richard J., to General Electric Co. Apparatus for adjusting vertically spaced shelves. 3,316,044, 4-25-67, Cl. 312—214.

Carbert, Ralph E., to Tel-E-Lect Products, Inc. Auger head. 3,318,401, 5-9-67, Cl. 175—413.

Carbert, Ralph E., and W. A. Eskridge, to Tel-E-Lect Products, Inc. Control mechanism. 3,338,269, 8-29-67, Cl. 137—636.2.

Carbine, Joseph C. Bottle and jar carrier. 3,339,814, 9-5-67, Cl. 224—45.

Carbona, Fernando. Apparatus for the continuous production of artificial fertilizers. 3,341,301, 9-12-67, Cl. 23—259.1.

Carbonaro, Antonio: *See*—
Natta, Giulio, Porri, Carbonaro, and Stoppa. 3,301,839.
Natta, Giulio, Porri, Stoppa, and Carbonaro. 3,300,467.

Carbond Corp.: *See*—
Sermon, George T., and Lescelius. 3,309,183.

Carbone, Anthony J., to The Dow Chemical Co. Hermetically sealed plastic containers. 3,315,872, 4-25-67, Cl. 229—43.

Carbone, Anthony J. Joint for thermoplastic articles. 3,341,-048, 9-12-67, Cl. 220—4.

Carbone Corp., The: *See*—
Eaton, Edgar P., Jr. 3,298,753.

Carbonell, Jose, V. Sanahuja, and H. Siegrist, to Sandoz Ltd. (also known as Sandoz A.G.). Hydrazinium dyes, with maleic acid or its salts and dyeing therewith. 3,357,782, 12-12-67, Cl. 8—25.

Carboni, Ralph J. Golf practice game. 3,298,232, 1-17-67, Cl. 73—379.

Carboni, Ralph J. Checker map game. 3,347,550, 10-17-67, Cl. 273—130.

Carboni, Rudolph A., to E. I. du Pont de Nemours and Co. Polymers containing certain benzotriazoles. 3,337,356, 8-22-67, Cl. 106—176.

Carbonneau, Renne R., to Consolidated Development Corp. Toy gun with spring actuated projectile propelling means. 3,348,532, 10-24-67, Cl. 124—27.

Carborundum Co., The: *See*—
Anthes, Lester B. 3,297,158.
Cofran, Louis L. 3,307,242.
Cofran, Louis L. 3,329,488.
Gill, Richard M. 3,313,605.
Loch, Luther D. 3,341,473.
Mason, John H., and Stein. 3,329,489.
McCord, Andrew T. 3,333,980.
Miccioli, Bruno R. 3,345,160.
Murata, Yorihiro, and Sucharski. 3,305,373.
Murata, Yorihiro, and Sucharski. 3,305,374.
Murata, Yorihiro, and Sucharski. 3,329,513.
Pratt, Eric W., and Hickey. 3,333,371.
Taylor, Kenneth M. 3,305,372.
Voss, Ronald. 3,316,072.
Wise, Douglas C., and Ehrenreich. 3,325,300.

Card, Jack A.: *See*—
Kitchener, Charles J., Senfleben, Crossen, Desmond, and Card. 3,358,333.

Card, Roy T., to The Singer Co. Tufting machine with laterally shifting needle plate. 3,301,205, 1-31-67, Cl. 112—79.

Cardani, Charles P., and R. L. Peterson, to United Shoe Machinery Corp. Fastener for can tops. 3,343,714, 9-26-67, Cl. 220—54.

Carden, Columbus H. Tablet and capsule dispenser. 3,300,-090, 1-24-67, Cl. 221—281.

Carder, Bruce M., to Edgerton, Germeshausen & Grier, Inc. Seismic survey system. 3,301,345, 1-31-67, Cl. 181—.5.

Carder, Victor H., to American Sugar Co. Elevator control system. 3,341,042, 9-12-67, Cl. 214—512.

Cardillo, Albert J. Dispensing apparatus. 3,341,078, 9-12-67, Cl. 222—129.4.

Cardillo, Jerry E.: *See*—
Thill, Walter E., and Cardillo. 3,337,037.

Cardinal of Adrian, Inc.: *See*—
MacDonald, Robert D. 3,315,497.
MacDonald, Robert D. 3,357,040.

Cardinale, Salvatore. Dual action collapsible steering wheel. 3,321,996, 5-30-67, Cl. 74—552.

Carding Specialists (Canada) Ltd.: *See*—
Varga, John M. J. 3,345,703.

Cardion Electronics, Inc.: *See*—
DiToro, Michael J. 3,311,836.
DiToro, Michael J. 3,356,947.

Cardiosonics Medical Instruments Corp.: *See*—
Machlup, Gustav F. 3,295,631.

Cardoza, James. Collapsible tube holder. 3,297,288, 1-10-67 Cl. 248—108.

Cardwell, John G., Jr., to General Electric Co. Filament support for tubular incandescent lamps. 3,335,312, 8-8-67, Cl. 313—279.

Carel, Alfred B., to Continental Oil Co. Condenser in sample fractionating system. 3,315,736, 4-25-67, Cl. 165—111.

Carel, Alfred B., to Continental Oil Co. Vapor phase chromatography system. 3,354,619, 11-28-67, Cl. 55—197.

Caretta, Renato: *See*—
Pacciarini, Antonio, and Caretta. 3,343,208.

Caretto, Howard L., to The Reeve Electrical Co., Inc. Breakglass station. 3,356,801, 12-5-67, Cl. 200—61.08.

Carevic, Frank E., to FMC Corp. Method of forming shaped articles of amylose. 3,336,429, 8-15-67, Cl. 264—186.

Carey Cushion Vehicle Corp.: *See*—
Sweeney, Thomas E., and Nixon. 3,341,125.

Carey, Donald F., to United States of America, Air Force. Mandrel casting solid propellant rocket fuel. 3,345,438, 10-3-67, Cl. 264—3.

Carey, Patrick H., Jr.: *See*—
Barghini, Robert J., Westberg, and Carey. 3,333,585.

Carey, Philip, Mfg. Co., The: *See*—
Moore, William A. 3,334,010.

Carey, Thomas H., Jr.: *See*—
Alibert, Vernon F., and Carey. 3,355,703.

Cargile, Neil H., Jr. Hydraulic controls for spud. 3,325,923, 6-20-67, Cl. 37—73.

Cargile, Neil H., Jr. Barge jacking apparatus. 3,332,663, 7-25-67, Cl. 254—107.

Cargill, William W., Jr., and R. C. Albert. Means for producing radiant energy. 3,304,460, 2-14-67, Cl. 314—21.

Cargnel, Louis A.: *See*—
Sprengling, Gerhard R., and Cargnel. 3,323,962.

Cariati, Vittorio, M. Massi Mauri, and A. DiCio, to Snam S.p.A. Method for purifying aqueous solutions of methylbutinol through removal of its acetone contents. 3,301,771, 1-31-67, Cl. 203—69.

Caridis, Andrew A.: *See*—
Benson, Clark K., and Caridis. 3,309,981.

Carignan, Donald A., and B. Canterbury, to American Optical Co. Apparatus for blocking lenses. 3,354,938, 11-28-67, Cl. 164—150.

Carignan, Lucien W., to New England Malleable Iron Co. Pipe union processing machine. 3,303,551, 2-14-67, Cl. 29—33.

Carinthia Elektrogerate Gesellschaft m.b.H., Firma: *See*—
Loner, Aldo. 3,343,258.

Cariou, Frank E.: *See*—
Valley, David J., Tittmann, and Cariou. 3,325,628.

Cariou, Frank E., W. E. Loeb, and D. J. Valley, to Union Carbide Corp. Thin film capacitors. 3,319,141, 5-9-67, Cl. 317—258.

Caris, Richard F., to Lebow Associates, Inc. Semiconductor strain gage system. 3,314,034, 4-11-67, Cl. 338—2.

Carison, Ralph A.: *See*—
Scruggs, John D. 3,316,587.

Carissimi, Massimo, and F. Ravenna, to Maggioni & C., S.p.A. Basic ethers of guaiacol and thymol with polyoxyethylenic chain and their derivatives. 3,320,254, 5-16-67, Cl. 260—247.7.

Carissimi, Vincent L., to Westinghouse Electric Corp. Wiring device having back and side wiring terminal means. 3,314,-043, 4-11-67, Cl. 339—164.

Carkhuff, Le Roy F.: *See*—
Baker, Leroy D., and Carkhuff. 3,335,544.

Carl, David G., and H. A. Steigelman, to Owens-Illinois Inc. Method for increasing scratch resistance of a glass surface with a pyrolyzing treatment and a coating of an olefin polymer. 3,323,889, 6-6-67, Cl. 65—60.

Carl, Henry A., and R. C. Foster, Jr., to General Electric Co. Combination jet exhaust nozzle and thrust reverser. 3,347,467, 10-17-67, Cl. 239—265.31.

Carl, Henry J., to Tri-Point Industries Inc. Polytetrafluoroethylene valve assembly. 3,327,994, 6-27-67, Cl. 251—368.

Carl Hurth Maschinen- und Zahnradfabrik: *See*—
Riedmayr, Georg. 3,307,082.

Carl, Ralph W., to Standard Oil Co. Process for the formation of a fuel cell electrode containing an intimate mixture of platinum and a second metal. 3,354,060, 11-21-67, Cl. 204—35.

Carl, William L., and J. C. Hickle, to General Electric Co. Electron discharge device and method. 3,358,177, 12-12-67, Cl. 313—292.

Carl, Wolfgang, D. Glabisch, A. Reichle, and M. Wandel, to Farbenfabriken Bayer Aktiengesellschaft. Agents for preventing the electrostatic charge of shaped articles. 3,316,-174, 4-25-67, Cl. 252—8.8.

Carlberg, Carl J. C., to A. M. de Jong Aktiebolaget. Sealing devices. 3,328,917, 7-4-67, Cl. 49—308.

Carlberg, Gustav W., and R. A. Carlberg. Electrically heated milk bottle chest. 3,315,064, 4-18-67, Cl. 219—518.

Carlberg, Lawrence G., and F. Shafizadeh, to Weyerhaeuser Co. Polyethers of levoglucosan. 3,305,542, 2-21-67, Cl. 260—209.

Carlberg, Richard A.: *See*—
Carlberg, Gustav W. and R. A. 3,315,064.

Carle Instruments, Inc.: *See*—
McKinney, Carlton B. 3,297,053.

Carle, Joseph T., to Borg-Warner Corp. Centrifugal gas separator. 3,300,950, 1-31-67, Cl. 55—199.

Carle & Montanari S.p.A.: *See*—
Billi, Agostino. 3,338,026.

Carle, Robert A.: *See*—
Motsenbocker, James A., Matthews, Morgan, and Carle. 3,347,405.

Carle, Robert A., and W. A. Keene, to Phillips Petroleum Co. Bottle carrier. 3,327,885, 6-27-67, Cl. 220—21.

Carle, Robert A., and R. J. Bennett, to Phillips Petroleum Co. Article carrier. 3,359,873, 12-26-67, Cl. 93—37.

Carlee, Robert L. Paint roller. 3,336,625, 8-22-67, Cl. 15—562.

Carleton Controls Corp.: *See*—
Cummins, Richard D. 3,319,649.

Carleton, Joseph G., and L. Gropper, to Beckman Instruments, Inc. Fluid cell with jet inlet directed toward window. 3,307,447, 3-7-67, Cl. 88—14.

Carleton, Robert G., to Phillips Petroleum Co. Computer data read-in control system. 3,316,539, 4-25-67, Cl. 340—172.5.

Carlevaro, Ugo. Floorless, two seat cabin for cableways. 3,347,173, 10-17-67, Cl. 104—173.

Carley-Miller, Inc.: *See*—
Arvidson, Bengt A. 3,339,706.

Carli, Adriano, and W. P. Kollakowski, ⅓ to Dalmine S.p.A. Plants for the igneous extraction of metals from their ores and remelting of the metals for foundry purposes or further treatment. 3,338,707, 8-29-67, Cl. 75—41.

Carlick, Daniel J.: *See*—
DeLia, Ernest, Pepis, Carlick, and Kissel. 3,308,076.
McFarlane, Samuel B., Jr., Carlick, and Ostock. 3,345,-162.

Carlier, Leon, to Fives Lille-Cail. Aerial tramways. 3,349,721, 10-31-67, Cl. 104—196.

Carlile, Alfred E., to Talon, Inc. End stops. 3,309,746, 3-21-67, Cl. 24—205.11.

Carlin, Francis X., to The International Nickel Co., Inc. Process for employing an auxiliary anode made of high purity nickel. 3,349,016, 10-24-67, Cl. 204—49.

Carlin, Harry: *See*—
Raak, Bently P., Grlica, and Carlin. 3,308,732.

Carlin, John J., to Chevite Corp. Multi-plate transfer mold. 3,327,355, 6-27-67, Cl. 18—42.

Carlin, Joseph: *See*—
Corso, Vito, Jr., Colman, and Carlin. 3,305,403.

Carlin, Joseph T.: *See*—
Braden, William B., Jr., and Carlin. 3,360,043.

Carlin, William W., to Pittsburgh Plate Glass Co. Electrolytic production of dichromates. 3,305,463, 2-21-67, Cl. 204—89.

Carlin, William W., to Pittsburgh Plate Glass Co. Recovery of chromate from chrome mud wastes. 3,314,747, 4-18-67, Cl. 23—56.

Carline, Edward J.: *See*—
Jacobs, Albert J. 3,314,370.

Carling Electric, Inc.: *See*—
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Sahrbacker, Edward V. 3,329,789.

Carlisle Chemical Works, Inc.: *See*—
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Hechenbleikner, Ingenuin, and Molt. 3,349,150.
Homberg, Otto A., Hechenbleikner, and Miller. 3,305,580.
Miller, Edith H., Hechenbleikner, and Homberg. 3,303,-161.
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Molt, Kenneth R., Hechenbleikner, and Homberg. 3,305,573.
Thompson, Paul F. 3,309,269.
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Carlisle, Raymond M., and J. A. Fraunfelder, to AMP Inc. Switching matrix. 3,331,991, 7-18-67, Cl. 317—113.

Carlisle Tire and Rubber, Division of Carlisle Corp.: *See*—
Mahoney, William F. 3,340,779.
Parr, Russell D. 3,296,047.

Carlo, Armando, Jr.: *See*—
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Carlock, Frank R., and W. R. Lamoureux, to International Business Machines Corp. Deflection control circuit. 3,325,-803, 6-13-67, Cl. 340—324.

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McGregor, Donald T. 3,301,354.
McGregor, Donald T. 3,314,508.

Carlon, Hugh R., to United States of America, Army. Hybrid preamplifier for thermistor bolometer infrared detectors. 3,353,109, 11-14-67, Cl. 330—3.

Carlon, Ina L.: *See*—
Carmony, Maccie L., and Carlon. 3,327,720.

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Carls, William, to Numatics, Inc. Multiple station valve manifold with optional supply. 3,323,545, 6-6-67, Cl. 137—608.

Carlsen, Carl E. Pad-inked hand stamp with stencil-attaching means. 3,298,304, 1-17-67, Cl. 101—125.

Carlsen, Christian S. Utility pole and base construction. 3,295,275, 1-3-67, Cl. 52—168.

Carlsen, Christian S. Apparatus for forming a cementitious base for fence posts or utility poles. 3,295,817, 1-3-67, Cl. 249—83.

Carlsen, Earl W., to Food Industries Research & Engineering. Sizing apparatus. 3,337,049, 8-22-67, Cl. 209—84.

Carlsmith, Lawrence A., to Improved Machinery Inc. Rotary drum filter improvements. 3,327,862, 6-27-67, Cl. 210—392.

Carlson, Andrew C., deceased (by E. L. Carlson, executrix). Lifting grapple with scissors tongs for handling concrete drainage rings. 3,297,353, 1-10-67, Cl. 294—81.

Carlson, Andrew C., deceased (by E. L. Carlson, executrix). Lifting grapple with outside gripper for handling concrete drainage rings. 3,339,966, 9-5-67, Cl. 294—81.

Carlson, Arne, and I. O. Sandberg, to Arenco Aktiebolag. Device in cigar machines for removing tobacco waste. 3,345,-894, 10-10-67, Cl. 83—100.

Carlson, Arthur B., to Textron, Inc. Packaging of ballpoint pen writing units. 3,346,100, 10-10-67, Cl. 206—46.

Carlson, Arthur W.: *See*—
Peckman, Eugene F., Carlson, and Torrey. 3,332,317.

Carlson, Arthur W., to Velsicol Chemical Corp. Composition and method for controlling crabgrass. 3,301,653, 1-31-67, Cl. 71—2.3.

Carlson, Bayard L., to Fibers, Inc. Molded pallet. 3,359,929, 12-26-67, Cl. 108—58.

Carlson, Carl O., to The National Cash Register Co. System for retrieving microimages formed on superpositioned microforms and the like. 3,319,518, 5-16-67, Cl. 88—24.

Carlson, Carl O., and B. F. Scherr, to The National Cash Register Co. Continuous contact printer. 3,298,297, 1-17-67, Cl. 95—77.5.

Carlson, Carl O., B. F. Scherr, and I. V. Rondas, to The National Cash Register Co. Contact printer. 3,316,825, 5-2-67, Cl. 95—73.

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Olive, William W., Jr., and Carlson. 3,344,382.

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Carlson, Curtis R.: *See*—
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Carlson, David J., and D. H. Rauscher, to Radio Corp. of America. Insulated-gate field-effect-transistor circuit having epitaxially-grown substrate on more highly doped base for improved operation at ultra-high frequencies. 3,315,096, 4–18–67, Cl. 307—88.5.

Carlson, David J., and G. E. Theriault, to Radio Corp. of America. Electrical circuit employing an insulated gate field effect transistor having output circuit means coupled to the substrate thereof. 3,348,062, 10–17–67, Cl. 307—88.5.

Carlson, David L., to United States of America, Health, Education and Welfare. Respiratory augmentor with electronic monitor and control. 3,357,428, 12–12–67, Cl. 128—145.8.

Carlson, De Wayne P.: *See*—
Apostle, George, Carlson, and Polland. 3,310,659.

Carlson, Donald E.: *See*—
Miller, Cyril V., and Carlson. 3,351,703.

Carlson, Donald W., and J. M. Cox, to General Motors Corp. Metering apparatus for an injection molding machine. 3,299,475, 1–24–67, Cl. 18—30.

Carlson, Drexel T.: *See*—
Zebarth, Ralph S., and Carlson. 3,340,696.
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Barkstrom, Reynold, Sutton, and Carlson. 3,348,780.

Carlson, Elmer V., to Industrial Research Products, Inc. Shock resistant transducer. 3,347,991, 10–17–67, Cl. 179—114.

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Carlson, Emil H., to Monsanto Co. Functional fluid compositions. 3,314,887, 4–18–67, Cl. 252—42.7.

Carlson, Eric H., to Kerr Chemicals, Inc. Package of aerosol cans, carton and carton blank therefor. 3,338,403, 8–29–67, Cl. 206—65.

Carlson, Eric H., to Kerr Chemicals, Inc. Carton and carton blank therefor. 3,338,407, 8–29–67, Cl. 206—65.

Carlson, Erna L.: *See*—
Carlson, Andrew C. 3,297,353.
Carlson, Andrew C. 3,339,966.

Carlson, Ernest R., to Harvey Hubbell, Inc. Snap action sequential multi-circuit switch. 3,311,716, 3–28–67, Cl. 200—6.

Carlson, Ernest R., to Harvey Hubbell, Inc. Interlocking electrical connectors and plugs having improved keying means. 3,339,171, 8–29–67, Cl. 339—42.

Carlson, Ernest R., to Harvey Hubbell, Inc. Multiple convenience outlet. 3,343,117, 9–19–67, Cl. 339—14.

Carlson, Frank A., Jr., D. K. Hatch, Jr., and R. P. Whittier, to Monsanto Co. Method of making laminated polyurethane structures. 3,303,076, 2–7–67, Cl. 156—79.

Carlson, Frank R.: *See*—
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Hoglund, Roy E., and Carlson. 3,338,212.

Carlson, Harold A., to ACF Industries, Inc. Carburetor. 3,321,194, 5–23–67, Cl. 261—39.

Carlson, Harold A., and J. T. Bickhaus, to ACF Industries, Inc. Anti-smog device. 3,313,532, 4–11–67, Cl. 261—39.

Carlson, Harold J., and R. J. Olander, to W. H. Miner, Inc. Door locking and sealing arrangement. 3,314,706, 4–18–67, Cl. 292—196.

Carlson, Harold J., and R. H. Stinnett, to W. H. Miner, Inc. Door latching arrangement. 3,341,241, 9–12–67, Cl. 292—340.

Carlson, Harold S. Exercising device. 3,352,426, 11–14–67, Cl. 211—22.

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Carlson, Heinz F.: *See*—
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Carlson, Heinz F., to FMC Corp. Plate inverting apparatus. 3,347,349, 10–17–67, Cl. 198—33.

Carlson, James A. Tractor mounted logging tower. 3,332,181, 7–25–67, Cl. 52—117.

Carlson, John H., and A. J. Kotek, to United Shoe Machinery Corp. Winches having overload control means. 3,309,066 3–14–67, Cl. 254—173.

Carlson, John H., and B. F. Paul, to United Shoe Machinery Corp. Personnel lowering devices. 3,325,147, 6–13–67, Cl. 254—154.

Carlson, Kelth L. Etching apparatus. 3,327,721, 6–27–67, Cl. 134—111.

Carlson, Kenneth B. Aquatic sport vehicle. 3,311,083, 3–28–67, Cl. 115—70.

Carlson, Lee A.: *See*—
Nelson, George R., and Carlson. 3,347,670.

Carlson, Marvin J., W. J. Dobeus, N. G. Olsen, and T. E. Rolls, to Allis-Chalmers Mfg. Co. Pivot construction. 3,347,577, 10–17–67, Cl. 287—100.

Carlson, Marvin T.: *See*—
Long, Donald A., Shaw, and Carlson. 3,348,011.

Carlson, Melvin G., to Westinghouse Air Brake Co. Cable reel tension system. 3,334,839, 8–8–67, Cl. 242—86.51.

Carlson, Norman A., to Bethany Fellowship Inc. Camping-trailer. 3,325,206, 6–13–67, Cl. 296—23.

Carlson, Oscar, to D. Wright and A. Strum, as co-executors of the estate of F. E. Meinecke, deceased, d.b.a. Comwel Co. Platform for vehicle lifts. 3,330,382, 7–11–67, Cl. 187—8.75.

Carlson, Raymond H., to Textron Industries, Inc. Self-thread-forming screw with drill point and method of making same. 3,318,182, 5–9–67, Cl. 85—41.

Carlson, Raymond H., to Textron Industries, Inc. Fastener having extruded driving head. 3,352,190, 11–14–67, Cl. 85—9.

Carlson, Raymond T. Typewriter desks. 3,321,257, 5–23–67, Cl. 312—196.

Carlson, Reinhardt W.: *See*—
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Carlson, Reuben C., to Fray Products, Inc. Phonographic apparatus. 3,305,238, 2–21–67, Cl. 274—10.

Carlson, Richard A., to General Motors Corp. Vehicle electrical system. 3,316,416, 4–25–67, Cl. 307—17.

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McMaster, Archie J. and S. B., and Carlson. 3,332,173.
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Carlson, Robert E.: *See*—
Clark, Hubert M., Drutchas, and Carlson. 3,314,495.

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Carlson, Robert L.: *See*—
Crafts, Cecil A., and Carlson. 3,348,149.

Carlson, Robert M., L. P. Jasorka, J. F. Mulconrey, and G. A. Trimble, to Western Electric Co., Inc. Apparatus for molding terminals in workpieces. 3,330,019, 7–11–67, Cl. 29—33.

Carlson, Robert W.: *See*—
Schluderberg, Donald C., and Carlson. 3,352,365.

Carlson, Ronald I.: *See*—
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Carlson, Ronald J.: *See*—
Shettles, Mack W. 3,342,147.

Carlson, Roland W., to Picker X-ray Corp., Waite Mfg. Div., Inc. Image intensifier tube with separable optical coupler. 3,356,851, 12–5–67, Cl. 250—213.

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Carlson Tool & Machine Co.: *See*—
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Hazelton, Harold J. 3,315,786.
Miles, Roland J. 3,332,723.

Carlson, Walter S. Wrist bands. 3,324,649, 6–13–67, Cl. 59—79.

Carlson, Wayland A.: *See*—
Eastman, Richard O., Dyer, Waterbury, Carlson, and Miller. 3,337,809.

Carlson, Wilbur E. Wire drawing and feeding mechanism. 3,339,396, 9–5–67, Cl. 72—289.

Carlson, Wilbur L.: *See*—
Allured, Robert B., Carver, Stroms, and Carlson. 3,303,682.

Carlson, Willard E.: *See*—
Russell, James, Carlson, and Mayhood. 3,310,363.

Carlson, Willard E., and W. T. Myers, Jr., to St. Regis Paper Co. Conductive cellulosic paper containing asbestos and acid salt of a polyvalent metal. 3,337,392, 8–22–67, Cl. 162—138.

Carlsson, Arent G., to Aktiebolaget Bofors. Supply case for a cartridge magazine of a gun. 3,320,857, 5–23–67, Cl. 89—34.

Carlsson, Carl G., to AB Cernelle. Method of obtaining important constituents from pollen. 3,360,437, 12–26–67, Cl. 195—1.

Carlsson, Nils R., and J. Malmros, to North American Philips Co., Inc. Device for transmitting high frequency pulses, preferably adapted for a radar equipment. 3,308,459, 3–7–67, Cl. 343—13.

Carlsson, Stig. Sound reproducing apparatus. 3,360,072, 12–26–67, Cl. 181—31.

Carlsson, Svenning N.: *See*—
Nycander, Oscar B. O., and Carlsson. 3,301,680.

Carlstedt, Ragnar L., and J. F. McCreery, to Kennametal, Inc. Clamp member. 3,354,527, 11–28–67, Cl. 29—96.

Carlstedt, Sven B. F. Reversible single phase asynchronous motors. 3,335,347 8–8–67, Cl. 318—207.

Carlston, Robert A., and P. C. Denny, to M. R. Miller. Ultrasonic method of lubricating a complex mechanism. 3,312,306, 4–4–67, Cl. 184—1.

Carlstrom, John D., to Massey-Ferguson, Inc. Means for varying wheel spacing. 3,347,598, 10–17–67, Cl. 301—9.

Carlton, John P. Stump cutter. 3,336,958, 8–22–67, Cl. 144—2.

Carlton, Kirkendall, and D. A. Davis, to Link-Belt Co. Apparatus for reclaiming particulate material from a pile. 3,358,855, 12–19–67, Cl. 214—10.

Carlton, Lawrence W.: *See*—
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Carlton, Louis A., E. Rich, and B. A. Peters, to Esso Production Research Co. Subsurface flowmeter. 3,357,025, 12–5–67, Cl. 346—33.

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Cutri, Frank J. 3,306,195.
Cutri, Frank J. 3,306,196.

Carlton, Sydney E. Gate valve for scale concentrated fluid. 3,295,546, 1–3–67, Cl. 137—242.

Carlton, Sydney E. Pressure seal groove. 3,310,283, 3–21–67, Cl. 251—357.

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Carlton, William C. Pair of skis. 3,304,095, 2–14–67, Cl. 280—11.13.

Carlton, William C. Shuttlecock with blade-like stems. 3,313,543, 4–11–67, Cl. 273—106.

Carlton, William W. Valve. 3,337,180, 8–22–67, Cl. 251—121.

Carlyle, Robert L., to The Dow Chemical Co. Method of preparing ethers of thiobisphenol compounds. 3,350,423, 10–31–67, Cl. 260—348.6.

Carlyle, Robert L., and W. E. Johnson, deceased (by M. S. Johnson, idependent executrix), to The Dow Chemical Co. Composition for the lamination of glass by means of epoxy resinous materials. 3,321,099, 5–23–67, Cl. 220—2.1.

Carlyle, Robert L., and G. E. Saumer, to The Dow Chemical Co. Polyglycidyl ether of a polyhydric compound with a minor amount of a polyepoxide formed by the reaction of diglycidyl ether with a polyhydric phenol. 3,352,809, 11–14–67, Cl. 260—30.4.

Carlyle, William C., to Square D Co. Safety switch having flatwise pivotable blades. 3,308,256, 3–7–67, Cl. 200—114.

Carmack, Tom. Convertible table. 3,300,791, 1–31–67, Cl. 5—3.

Carman, Frank C., and L. Johnson. Stringed musical instruments with piezoelectric transducers. 3,301,936, 1–31–67, Cl. 84—1.16.

Carman, Kenneth K.: *See*—
Kimmel, Joseph J., and Carman. 3,345,093.

Carman, Kenneth K., to Koppers Co., Inc. Lubricant seal for couplings. 3,343,376, 9–26–67, Cl. 64—9.

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Masterson, Earl E. 3,350,091.

Carmellini, Andrew E.: *See*—
Panzer, Hans W. P., and Carmellini. 3,322,130.

Carmet Co.: *See*—
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Carmi, Arieh: *See*—
Ambrogi, Raymond R., and Carmi. 3,353,942.
Belentepe, Yilmaz C., Carmi, Kiehl, and Rodgers. 3,309,190.
Belentepe, Yilmaz C., Carmi, Kiehl, and Rodgers. 3,328,148.

Carmi, Arieh, and T. J. Rayeski, to Corning Glass Works. Clamping device. 3,347,653, 10–17–67, Cl. 65—307.

Carmichael, Edward W. Hi-fi amplification of a self-contained amplifier for guitar. 3,357,291, 12–12–67, Cl. 84—267.

Carmichael, Keith S., to E. I. du Pont de Nemours, and Co. Film perforating apparatus. 3,355,974, 12–5–67, Cl. 83—171.

Carmichael, Laurence A., Jr., and A. F. Reese, to Otto H. York Co., Inc. Apparatus for removing liquid particles in a gas stream. 3,339,351, 9–5–67, Cl. 55—350.

Carmichael, Robert, and G. H. Klun, to Union Carbide Corp. Automatic spray device. 3,305,134, 2–21–67, Cl. 222—70.

Carmichael, Robert, and J. Southworth, Jr., to Union Carbide Corp. Galvanic cell closure. 3,349,543, 10–31–67, Cl. 53—366.

Carmichael, Thomas F., and R. M. Beltramo, to Syncro Corp. Regulated transformer. 3,331,010, 7–11–67, Cl. 321—16.

Carmichael, Thomas F., and R. J. Maier, to Syncro Corp. Ignition system. 3,358,665, 12–19–67, Cl. 123—148.

Carmines, Alfred B. Golfer's training aid including wrist movement indicator means. 3,350,100, 10–31–67, Cl. 273—183.

Carmo Aktieselskab: *See*—
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Carmody, Robert J. System for heating, testing and destroying filament wound containers. 3,329,799, 7–4–67, Cl. 219—200.

Carmody, Robert J. Honeycomb panel and method of making same. 3,346,442, 10–10–67, Cl. 161—68.

Carmon, Richard L.: *See*—
Clark, Richard E., Carmon, and Purvear. 3,327,475.
Purvear, David B., Clark, and Carmon. 3,302,480.

Carmony, Maccie L., and I. L. Carlon. Hair protection cap. 3,327,720, 6–27–67, Cl. 132—49.

Carmstrom, Helge. Arrangement on shelves, preferably for book-cases. 3,295,695, 1–3–67, Cl. 211—148.

Carnahan, William M.: *See*—
Messer, Elmer S., and Carnahan. 3,344,924.

Carnation Co.: *See*—
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Chu, Stephen S. 3,324,906.
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Loo, Ching C. 3,340,071.
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Carnegie, George E. Positive variable speed transmission unit 3,334,527, 8–8–67, Cl. 74—689.

Carnesecca, Bernice D.: *See*—
Carnesecca, Joseph, Jr., and E. C. Carnesecca. 3,343,613.

Carnesecca, Egidio C.: *See*—
Carnesecca, Joseph, Jr., and E. C. Carnesecca. 3,315,532.
Carnesecca, Joseph, Jr., and E. C. Carnesecca. 3,343,613.

Carnesecca, Joseph, Jr., and E. C. Carnesecca. Cylinder extension coupling device. 3,315,532, 4–25–67, Cl. 74—1.

Carnesecca, Joseph, Jr., and E. C. Carnesecca, deceased, by B. D. Carnesecca, executrix, to New Draulics, Inc. Power operated tool. 3,343,613, 9–26–67, Cl. 173—169.

Carnevale, Edmund H.: *See*—
Lynnworth, Lawrence C., and Carnevale. 3,302,044.

Carnevale, Edmund H., and L. C. Lynnworth, to Parametrics, Inc. Ultrasonic measurement apparatus. 3,315,520, 4–25–67, Cl. 73—67.5.

Carnevale, Edmund H., and L. C. Lynnworth, to Parametrics, Inc. Ultrasonic measurement apparatus employing a cooled cylindrical transducer. 3,354,699, 11–28–67, Cl. 73—67.5.

Carnevale, Richard J.: *See*—
Amdahl, Gene M., Carnevale, Collins, Marsh, and Villante. 3,328,768.

Carnevale, Richard J., A. F. Collins, J. E. Greene, W. P. Hanf, A. A. Magdall, C. B. Perkins, Jr., J. W. Rood, and A. E. Villante, to International Business Machines Corp. Data processing system. 3,315,235, 4–18–67, Cl. 340—172.5.

Carney, Adam C., to Bell Telephone Laboratories, Inc. Telephone subscriber's line circuit. 3,322,902, 5–30–67, Cl. 179—84.

Carney, Peter W.: *See*—
Whittaker, John N., and Carney. 3,354,396.

Carney, Priscilla A.: *See*—
Leavitt, Frederick C., and Carney. 3,304,294.

Carney, Richard R., to Union Carbide Corp. Thermal reset liquid level control system for the liquefaction of low boiling gases. 3,300,991, 1–31–67, Cl. 62—9.

Carney, Richard R. Thermal reset liquid level control system for the liquefaction of low boiling gases. 3,301,110, 1–31–67, Cl. 62—9.

Carney, Richard W.: *See*—
Begley, John W., Kahre, and Carney. 3,328,480.

Carney, Richard W. Carton cutting guide. 3,334,415, 8–8–67, Cl. 30—2.

Carney, Richard W. J., H. M. Blatter, and G. De Stevens, to Ciba Corp. Bycyclic diaza compounds. 3,322,759, 5–30–67, Cl. 260—247.5.

Carney, Richard W. J., and W. L. Bencze, to Ciba Corp. 3,4-diphenyl-chromans. 3,340,276, 9–5–67, Cl. 260—345.2.

Carney, Richard W. J., and W. L. Bencze, to Ciba Corp. Phenyl-chromenes. 3,340,277, 9–5–67, Cl. 260—345.2.

Carney, Richard W. J., H. M. Blatter, and G. De Stevens, to Ciba Corp. 5,6-lower alkylene-pyrimidines. 3,346,452, 10–10–67, Cl. 167—65.

Carney, Roswell E.: *See*—
Bachle, Carl F., and Carney. 3,311,096.

Carney, Vincent L. Luminous spot shrinking system employing overlapping standing waves. 3,321,633, 5–23–67, Cl. 250—213.

Carney, William V., and P. V. De Luca, to Markite Corp. Phasing tool. 3,340,752, 9–12–67, Cl. 81—90.

Carnielli, Guido. Hinge and braking device for stationary rowing exercising apparatuses. 3,315,959, 4–25–67, Cl. 272—72.

Carniol, Bohdan, and Z. Malý, to Tesla, narodni podnik. Circuit arrangement for accurate measurement of temperatures or small temperature changes. 3,345,874, 10–10–67, Cl. 73—362.

Caro, Anthony: *See*—
Ziegler, Alvin M., and Caro. 3,334,222.

Caro, Michael R. Drilling apparatus. 3,335,806, 8–15–67, Cl. 175—106.

Carobbe, Joseph. Self-propelled dirigible amusement vehicle. 3,336,993, 8–22–67, Cl. 180—2.

Carocci, Louis, to C. & C. Button & Trimming Co. Inc. Tufted back mold for fabric covered button. 3,349,448, 10–31–67, Cl. 24—92.

Carolan, Claire L. Cover means for frying pans and the like. 3,343,345, 9–26–67, Cl. 55—384.

Carolina Patent Development Trust, The: *See*—
Boger, Harold J., and Dunmore. 3,358,718.

Caron, Claude, to Soletanche. Method for injecting the components of a phenoplastic resin into slightly watertight grounds. 3,332,245, 7–25–67, Cl. 61—36.

Caron, Conradin. Multi-pick structure. 3,304,826, 2–21–67, Cl. 84—322.

Caron, Fred J.: *See*—
Barnum, Orville G., and Caron. 3,313,222.

Caron, Rene J.: *See*—
Grover, George M., Busse, and Caron. 3,305,005.

Caron Spinning Co.: *See*—
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Caron, Wilfred N., to Dynalectron Corp. Variable susceptance coaxial tuner. 3,340,485, 9–5–67, Cl. 333—97.

Caropreso, Frank E.: *See*—
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Carpenter, Ervin C. Tool for removing door handle retaining springs. 3,340,592, 9-12-67, Cl. 29—229.
Carpenter, Herbert L., deceased (by O. M. Carpenter, H. L. Carpenter, Jr., and O. T. Carpenter, executors), and H. L. Carpenter, Jr., to Greif Bros. Cooperage Corp. Plastic lined fiber containers. 3,357,626, 12-12-67, Cl. 229—14.
Carpenter, Herbert L., Jr.: *See*—
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Carpenter, Lewis R., and D. Makuch, to LTV Aerospace Corp. Three dimensional volumetric display means. 3,316,803, 5-2-67, Cl. 88—24.
Carpenter, Marvin L. Torque spring for vehicle. 3,332,678, 7-25-67, Cl. 267—58.
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Carpenter, Victor W., C. E. Ward, and M. F. Littmann, to Armco Steel Corp. Method for improving the magnetic properties of ferrous sheets. 3,347,718, 10-17-67, Cl. 148—111.
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Carrier, Robert M., Jr., to Carrier Mfg. Co. Feeding apparatus. Re. 26,291, 10-31-67, Cl. 198—220.

Carrier, Robert M., Jr., deceased; Louisville Trust Co., E. D. Carrier, P. H. Mitchell, and A. D. Stevens, executors and trustees. Liquid mount tunable vibrating device for natural frequency vibrating conveyors. 3,338,384, 8-29-67, Cl. 198—220.

Carrier, Robert M., Jr., deceased; Louisville Trust Co., E. D. Carrier, P. H. Mitchell, and A. D. Stevens, executors and trustees. Adjustable stroke vibratory feeder. 3,346,097, 10-10-67, Cl. 198—220.

Carriere, Pierre P. A., L. F. Jumelle, G. J.-L. Ranvier, and G. Richter, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation and Office National d'Etudes et de Recherches Aerospatiales dit: O.N.R.E.A. Silencers for jet propulsion engines or the like. 3,344,884, 10-3-67, Cl. 181—51.

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Carrigan, Raymond J., and W. T. Harrison, to Bigelow-Sanford, Inc. Axminster pile fabric and method for making the same. 3,354,914, 11-28-67, Cl. 139—399.

Carrigan, Richard B. Male urinal with inflatable sealing means. 3,353,538, 11-21-67, Cl. 128—295.

Carrigan, William H., and R. E. O'Brien, to Kirkhof Mfg. Corp. Vacuum forming die and method. 3,308,213, 3-7-67, Cl. 264—90.

Carrington, James E., to Short Bros. & Harland Ltd. Hydraulic valves. 3,323,549, 6-6-67, Cl. 137—625.69.

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Carrol, Clifford L. Holder and dispenser for toilet paper. 3,295,777, 1-3-67, Cl. 242—55.3.

Carroll, Albert, to Lever Bros. Co. Eyecup and spray dispenser. 3,314,426, 4-18-67, Cl. 128—173.

Carroll, Albert P. Gas and air separator. 3,336,732, 8-22-67, Cl. 55—201.

Carroll, Albert P. Air and gas separator for descending water. 3,353,494, 11-21-67, Cl. 103—203.

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Carroll, Felix P., and R. J. Hoelzer, to Allied Chemical Corp. High strength adhesive for building materials. 3,309,328, 3-14-67, Cl. 260—23.

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Carroll, Paul E. Method and apparatus for measuring an unknown impedance by comparison with a standard impedance. 3,299,352, 1-17-67, Cl. 324—57.

Carroll, Richard W., to Collins Radio Co. Temperature stable low frequency filter without inductance. 3,303,354, 2-7-67, Cl. 307—88.5.

Carroll, Shirley B. Instrument case. 3,313,101, 4-11-67, Cl. 58—105.

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Carroll, William L. Pattern determining device. 3,354,671, 11-28-67, Cl. 66—50.

Carroll, William P. Remote light actuated control means for models. 3,314,189, 4-18-67, Cl. 46—244.

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Carruthers, Eben H. Method and machine for packing food products. 3,321,317, 5-23-67, Cl. 99—188.

Carruthers, Eben H. Method of controlling the feed to food packing machines. 3,346,403, 10-10-67, Cl. 99—188.

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Carson, William D., and L. F. Paul, to General Motors Corp. Storage battery. 3,313,033, 4–11–67, Cl. 34—21.
Carson, William D., L. F. Paul, R. O. Wilkins, and O. H. Smith, to General Motors Corp. Storage battery. 3,314,158, 4–18–67, Cl. 34—21.
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Carson, William N., Jr., to General Electric Co. Secondary cell having hydrogen-oxygen recombination catalyst in communication with electrolyte chamber. 3,356,533, 12–5–67, Cl. 136—6.
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Carter, Andrew G. Fail-safe automatic belt anchor system. 3,308,902, 3–14–67, Cl. 180—82.
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Carter, Charles E., and S. C. Wells, Jr., to United Elastic Corp. Extrusion head for plastic tubing. 3,303,247, 2–7–67, Cl. 264—95.
Carter, Charles W., to Stromberg-Carlson Corp. Telephone ringing circuits. 3,300,589, 1–24–67, Cl. 179—87.
Carter, Clarence. Portable projector stand. 3,358,951, 12–19–67, Cl. 248—11.
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Carter, Daniel T., to United States Steel Corp. Overflow cell for plating strip. 3,354,070, 11–21–67, Cl. 204—206.
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Carter, Don E., to Monsanto Co. Constant volume conversion meter. 3,310,975, 3–28–67, Cl. 73—19.
Carter, Elbert P., to E. I. du Pont de Nemours and Co. Over-current protective device. 3,336,504, 8–15–67, Cl. 317—52.
Carter, Ernest P., and R. S. Otstot, to Monsanto Co. Pneumatic false twister. 3,303,639, 2–14–67, Cl. 57—77.3.
Carter, Eugene H., to Hoerner Boxes, Inc. Display container and carrier. 3,301,386, 1–31–67, Cl. 206—1.
Carter, Frank L., to Pioneer Packaging, Inc. Display carton. 3,298,504, 1–17–67, Cl. 206—45.14.
Carter, Fred V., and D. R. Jones. Heliotropic device with thermocouple sensors. 3,305,686, 2–21–67, Cl. 250—203.
Carter, Frederick D., to Jones Gas Process Co. Ltd. Recovery of carbon black from aqueous slurries thereof contaminated with polycyclic hydrocarbon pyrolysis products. 3,325,301, 6–13–67, Cl. 106—307.
Carter, George A., III. Motorized surfboard. 3,324,822, 6–13–67, Cl. 115—70.
Carter, George D. Ball skate device. 3,355,185, 11–28–67, Cl. 280—11.23.
Carter, George H., to Redland Tiles Ltd. Article propelling apparatus. 3,355,009, 11–28–67, Cl. 198—221.
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Carter, Harry T. Variable connector. 3,347,573, 10–17–67, Cl. 287—14.
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Carter, James C., Smith, and Kaessen. 3,304,877.
Carter, James, and E. E. Kueppers. Wall display bank. 3,332,616, 7–25–67, Cl. 232—5.
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Carter, James C., L. R. Smith, and D. A. Kaessen, to J. C. Carter Co. Submerged motor driven pumping system. 3,304,877, 2–21–67, Cl. 103—87.
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Carter, James L., P. J. Lucchesi, and E. R. Nightingale, Jr., to Esso Research and Engineering Co. Olefin separation with strontium and cadmium molecular sieves. 3,355,509, 11–28–67, Cl. 260—677.
Carter, James S. F., ½ to K. B. Ray. Apparatus for packaging fruit juices and similar products. 3,350,839, 11–7–67, Cl. 53—88.
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Carter, John W., to Caterpillar Tractor Co. Method and apparatus for controlling bounce in tractor-trailer combinations. 3,321,216, 5–23–67, Cl. 280—489.
Carter, John W., J. C. Medley, and J. P. Mueller, to Caterpillar Tractor Co. Hydropneumatic seat suspension. 3,300,203, 1–24–67, Cl. 267—1.
Carter, Joseph H. Can opener. 3,302,283, 2–7–67, Cl. 30—15.5.
Carter, Joseph H., to Carter Machine & Tool Co. Toy tire with white side wall insert ring. 3,360,300, 12–26–67, Cl. 301—63.
Carter, Kenneth G. Roll crusher rebuilder. 3,339,055, 8–29–67, Cl. 219—76.
Carter, Lavoy. Prefabricated, adjustable stairway, ramp or bridge. 3,299,590, 1–24–67, Cl. 52—183.
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Carter, Richard P., to United States of America, Navy. Method of manufacture of rocket chambers having an integral insulator or liner. 3,303,079, 2–7–67, Cl. 156—172.
Carter, Robert C.: *See*—
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Carter, Robert C., to Collins Radio Co. Use of resistive feedback in unbalanced R-C integrator. 3,333,117, 7–25–67, Cl. 307—88.5.
Carter, Robert E. Folding doors. 3,298,423, 1–17–67, Cl. 160—97.
Carter, Robert M., and G. L. Petrik, to Link-Belt Co. Side frame mount. 3,313,368, 4–11–67, Cl. 180—9.2.
Carter, Robert M., and G. L. Petrik, to Link-Belt Co. Power shovel. 3,346,129, 10–10–67, Cl. 214—135.
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Carter, Ronald P., W. A. Cowin, and M. C. Hall, to The English Electric Co. Ltd. Circuit for deriving square wave from incoming alternating signal. 3,350,578, 10–31–67, Cl. 307—88.5.

Carter, Roy D. Apparatus for insect control. 3,330,062, 7–11–67, Cl. 43—124.
Carter, Russell P., Jr., to The Goodyear Tire & Rubber Co. 2-amino-2-methyl-propanol cross linking agent for polyurethane process and product. 3,296,156, 1–3–67, Cl. 260—9.
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Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Apparatus for applying gum to a label picker. 3,310,030, 3–21–67, Cl. 118—261.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Article combiner. 3,310,151, 3–21–67, Cl. 198—32.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Labeling machine with yieldable drive means for picker and emergency stop. 3,310,449, 3–21–67, Cl. 156—365.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Labeling machine. 3,313,673, 4–11–67, Cl. 156—566.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Rotary-type labeling machine. 3,354,016, 11–21–67, Cl. 156—363.
Carter, Terry L. Case packer. 3,327,450, 6–27–67, Cl. 53—61.
Carter, Thomas. Automotive vehicle. 3,305,038, 2–21–67, Cl. 180—50.
Carter, Thomas L., to E. I. du Pont de Nemours and Co. Melt spinning filtration bed retaining screen. 3,348,263, 10–24–67, Cl. 18—8.
Carter, Thomas M., to Universal American Corp. Agricultural sprayer. 3,321,137, 5–23–67, Cl. 239—78.
Carter, Thomas R., F. Fahnoe, and E. P. Supinski, to National Distillers and Chemical Corp. Production of vanadium oxytrichloride. 3,355,244, 11–28–67, Cl. 23—17.
Carter, Truland H. Analog circuit for simulating and then calculating the forces on a structure having fixed or pinned joints. 3,335,267, 8–8–67, Cl. 235—184.
Carter, Uriel F., to Cutler-Hammer, Inc. Push button actuator for an electrical controller. 3,331,931, 7–18–67, Cl. 200—50.
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Carter, William B., and W. C. Ziegenhain, to Continental Oil Co. Process for displacement of trialkylaluminum in the preparation of alpha olefins. 3,317,625, 5–2–67, Cl. 260—677.
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Carter, William J., Jr., to The Firewel Co., Inc. Balanced demand valve. 3,343,563, 9–26–67, Cl. 137—517.
Carter, William L. Calorie indicator. 3,323,720, 6–6–67, Cl. 235—128.
Carter, William L. Calorie and gram indicator. 3,337,128, 8–22–67, Cl. 235—71.
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Carthew, John R., E. Loizides, and L. A. Mitta, to International Business Machines Corp. Data translation apparatus. 3,354,437, 11–21–67, Cl. 340—172.5.
Carthew, John R., E. Loizides, and L. A. Mitta, to International Business Machines Corp. Data translation apparatus. 3,354,450, 11–21–67, Cl. 340—347.
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Cartier, Gerald J.: *See*—
Cartier, Gerald J. 3,299,850.
Cartier, Gerald J., to G. H., T. H., and B. J. Cartier. Explosive fire alarm. 3,299,850, 1–24–67, Cl. 116—105.
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Cartwright, Gerald D., and E. M. Smith, to Radio Corp. of America. Storage tube target structure having attached shield ring. 3,319,103, 5–9–67, Cl. 313—68.
Cartwright, Jessie, to Borg-Warner Corp. Dispensers for washing machines. 3,334,499, 8–8–67, Cl. 68—207.
Cartwright, John S., C. W. Henderson, G. E. Melvin, R. C. Steen, and E. Tice, to Western Electric Co., Inc. Methods of and apparatus for winding wire. 3,314,452, 4–18–67, Cl. 140—92.2.
Cartwright, Victor F., to Babcock Electronics Corp. Pulsed range and angle measuring system. 3,350,711, 10–31–67, Cl. 343—11.
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Caruso, Gerard P., to Shell Oil Co. Manufacture of clay-thickened greases. 3,321,398, 5–23–67, Cl. 252—28.
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Cary, Donald S., to Xerox Corp. Color display. 3,316,805, 5–2–67, Cl. 88—24.
Cary, Donald S., to Xerox Corp. Frost color display. 3,322,034, 5–30–67, Cl. 88—24.
Cary, Francis H., to The New York Air Brake Co. Pumps. 3,312,171, 4–4–67, Cl. 103—44.
Cary, Francis H., to The New York Air Brake Co. Combined butterfly and check valve. 3,344,808, 10–3–67, Cl. 137—599.2.
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Cary, Henry H., to Applied Physics Corp. System for measuring optical activity of materials. 3,312,141, 4–4–67, Cl. 88—14.
Cary, Howard B., to Hobart Bros. Co. Arc welding with A.C. power and cored electrode. 3,309,490, 3–14–67, Cl. 219—74.
Cary, James E., to Sweden Freezer Mfg. Co. Dialyzer clamp assembly. 3,352,421, 11–14–67, Cl. 210—238.
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Casady, Claude E. Vacuum bag and connection. 3,327,937, 6–27–67, Cl. 232—43.2.
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Casanova, Louis A., to Westinghouse Electric Corp. Preignition prevention in ignitrons by delayed application to the auxiliary anode. 3,311,784, 3–28–67, Cl. 315—262.

Casassa, Joseph P., to General Motors Corp. Fuel pump with rocker arm wear pad. 3,359,918, 12–26–67, Cl. 103—215.

Casavant, Donald D., N. Gold, and A. J. Sable, to Polaroid Corp. Photographic film sheets with gripping means to facilitate tearing. 3,313,627, 4–11–67, Cl. 96—76.

Casbarro, Ralph M. Bowling ball cleaning apparatus. 3,355,-756, 12–5–67, Cl. 15—21.

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Cascioli, Anthony, 50% to J. Schuman. Combined hoop and tethered ball. 3,348,333, 10–24–67, Cl. 46—51.

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Case, Leslie C., and T.-Y. Yan. Catalytic reduction of fluorinated esters. 3,314,987, 4–18–67, Cl. 260—484.

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Case, Wayne G., to Eastman Kodak Co. Process of liquefying gelled cellulose ester acid dopes. 3,313,802, 4–1–67, Cl. 260—230.

Case, William H. Adjustable applicator and cleaner. 3,332,103, 7–25–67, Cl. 15—511.

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Casebeer, Oran T., L. M. Wood, and D. M. Harvey, to Eastman Kodak Co. Multilamp slave flash unit. 3,312,086, 4–4–67, Cl. 67—31.

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Casey, Harry B., and J. G. Woods, to IRC, Inc. Variable resistor. 3,354,418, 11–21–67, Cl. 338—174.

Casey, James C. Clamp for grasping storage drums. 3,352,591, 11–14–67, Cl. 294—81.

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Casey, James H., to Minnesota Mining and Mfg. Co. Brush fed tape dispenser. 3,338,125, 8–29–67, Cl. 83—210.

Casey, James J., and R. R. Garnache, to Sprague Electric Co. Semiconductor method and device. 3,337,375, 8–22–67, Cl. 148—33.

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Casey, Leonard R. Rotary pump. 3,331,326, 7–18–67, Cl. 103—2.

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Cash, Carl G., J. R. Brewer, and S. J. Bessmer, to General Electric Co. Siloxane based, non-skid coating composition. 3,350,330, 10–31–67, Cl. 260—18.

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Cash, James A., Jr., to The Akron Standard Mold Co. Sewing machine and method of splicing fabric together. 3,336,886, 8–22–67, Cl. 112—2.

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Holt, John P., Day, and Cash. 3,330,890.

Cashion, Jack A. Pivoted tool having a wedge-shaped jaw portion for engaging a tie rod sleeve. 3,336,825, 8–22–67, Cl. 81—426.

Cashion, Kenneth D., and B. R. Baker, to United States of America, National Aeronautics and Space Administration. Radiation detector readout system. 3,358,145, 12–12–67, Cl. 250—207.

Cashman, Edward P.: *See*—
Gathman, Albert, and Cashman. 3,328,179.
Merz, Richard E., and Cashman. 3,324,034.
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Cashman, Robert M., to The Continental Oil Co. Surface-piercing mast for measuring the depth of a submerged vessel. 3,307,399, 3–7–67, Cl. 73—311.

Cashman, Robert W., to Saginaw Machine & Tool Co. Tool holder construction. 3,299,752, 1–24–67, Cl. 82—36.

Cashman, Robert W., to Saginaw Machine & Tool Co. Tool bit clamp construction and method of manufacture. 3,335,-480, 8–15–67, Cl. 29—96.

Cashman, Robert W., and A. Wasco, Jr., to Saginaw Machine and Tool Co. Axially adjustable coupling. 3,306,076, 2–28–67, Cl. 64—11.

Cashman, Walter D.: *See*—
Allen, Robert P., Cashman, Short, and Winsor. 3,302,-957.

Cashore, Louis J. Apparatus for detecting creel cord irregularities. 3,343,410, 9–26–67, Cl. 73—160.

Casini, Vittorio, to Piaggio & C. S.p.A. Indicator device. 3,313,267, 4–11–67, Cl. 116—116.

Caskey, Joseph F., Jr.: *See*—
Starnes, Herbert D., and Caskey. 3,337,055.

Cason, Charles M., to United States of America, Army. Gas velocity probe for flowing ionized gases. 3,343,414, 9–26–67, Cl. 73—194.

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Casper, Ray K., to E. J. Longyear Co. Underground water swivel apparatus. 3,303,897, 2–14–67, Cl. 175—214.

Caspers, James W., to United States of America, Navy. Correlation direction finder system. 3,329,956, 7–4–67, Cl. 343—119.

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Cass, Lester E. Hydraulic pump. 3,299,633, 1–24–67, Cl. 60—52.

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Cassagne, Pierre, and G. Melchior, to Compagnie Francaise de Television. Systems for the generation of special effects in colour television. 3,296,367, 1–3–67, Cl. 178—5.4.

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Cassano, James R., and L. H. P. Turner, to Xerox Corp. Sheet feed mechanism. 3,301,551, 1–31–67, Cl. 271—62.

Cassano, James R., and L. H. Turner, to Xerox Corp. Xerographic roller fuser drive apparatus. 3,324,791, 6–13–67, Cl. 100—172.

Cassano, James R., and L. H. Turner, to Xerox Corp. Xerographic fusing apparatus. 3,331,592, 7–18–67, Cl. 263—6.

Cassarno, George J. Glue-applying apparatus. 3,295,491, 1–3–67, Cl. 118—2.

Cassedy, William F., Jr., to Stackpole Carbon Co. Snap switch. 3,349,358, 10–24–67, Cl. 338—172.

Cassel, Knut E., to Allgon Antennspecialisten A/B. Directional antenna comprising an inclined nonreflecting radiating element and vertical counterpoise. 3,337,873, 8–22–67, Cl. 343—731.

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Cassel, Thomas R., and H. L. Redding, to General Motors Corp. Conduit system. 3,336,056, 8–15–67, Cl. 285—137.

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Heid, Christian. 3,326,629.
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Cassidy, Andrew, and R. W. Peet, to Sun Shipbuilding & Dry Dock Co. Cable hanger. 3,334,851, 8–8–67, Cl. 248—68.

Cassidy, Benjamin, to Federal Carton Corp. Book carton. 3,331,548, 7–18–67, Cl. 229—40.

Cassidy, Francis T., Jr., to International Telephone and Telegraph Corp. Time shared telegraph transmission system including sequence transmission with reduction of start and stop signals. 3,310,626, 3–21–67, Cl. 178—50.

Cassidy, Harry J., and W. D. Beck, to Borg-Warner Corp. Lubrication system for rotary compressor. 3,312,387, 4–4–67, Cl. 230—152.

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Cassidy, Patrick J., and M. L. Quammen, to United States of America, Army. Binocular carrying case. 3,297,218, 1–10–67, Cl. 224—26.

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Castagna, John F., to Stebber Cycle Corp. Phonograph. 3,342,-497, 5–19–67, Cl. 274—1.

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Castel, Gerard A. L., to Nouveautes Mecaniques Electriques Nomel. Lock-washers. 3,332,464, 7–25–67, Cl. 151—35.

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Castello, Anthony M., to The Coleman Co., Inc. Air pipe connector. 3,325,193, 6–13–67, Cl. 285—189.

Castello, Anthony M., to The Coleman Co., Inc. Coupling device for connecting precharged fluid lines. 3,331,377, 7–18–67, Cl. 137—68.

Casterline, Burnham, R. H. Chapman, and R. V. Eschbaugh, to Motorola, Inc. Electronic control circuit including counter for selectively actuating one of a plurality of units. 3,345,-569, 10–3–67, Cl. 325—25.

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Castoe, John H. Tool for brake shoe hold down springs. 3,355,-791, 12–5–67, Cl. 29—227.

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Casull, Richard J., ½ to R. J. and G. Casull, and ½ to K. R. and F. P. Eskelsen. Drum cartridge feeding mechanism. 3,319,523, 5–16–67, Cl. 89—33.

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Caswell, Dwight A., to Caswell Electronics Corp. Switching circulator having slots extending from the pole pieces to the exterior of the housing to overcome the short-turn effect. 3,324,418, 6–6–67, Cl. 333—1.1.

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Cataldo, John B., E. T. Platz, and B. Di Marco, to I-T-E Circuit Breaker Co. Electromagnetic contactor having interchangeable auxiliary devices. 3,324,431, 6–6–67, Cl. 335—132.

Cataldo, John B., A. J. Kralik, F. W. Kussy, and R. W. Thomas, to I-T-E Circuit Breaker Co. Toggle lever actuated manually-operated circuit controller. 3,349,208, 10–24–67, Cl. 200—153.

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Cataldo, Roy S., to General Motors Corp. Free piston-pulsed turbine engine. 3,359,719, 12–26–67, Cl. 60—13.

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Cathcart, Norman E. Door supported adjustable towel rack. 3,355,030, 11–28–67, Cl. 211—87.

Catherall, Reginald, and H. A. Dorey. Transfer function testing apparatus utilizing a sine wave transfer function obtained by combining rectangular and triangular waveforms. 3,340,469, 9–5–67, Cl. 324—57.

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Catravas, George N., to Technicon Corp. Chromatography analysis apparatus and method. 3,341,299, 9–12–67, Cl. 23—230.

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Catu, Pierre E. H., to Office Central de Gestion et de Controle OGEC. Hydraulic winch with self-clamping jaws. 3,334,865, 8–8–67, Cl. 254—106.

Catzen, Robert W., to Covington Mfg. Corp. Method of cleaning ink from rubber dies. 3,355,324, 11–28–67, Cl. 134—29.

Caubet, Jacques, to Automobiles M. Berliet. Friction elements especially resistant to wear by abrasion. 3,321,338, 5–23–67, Cl. 148—11.5.

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Caudell, Le Roy. Storage Systems, Inc. Drive-in storage rack. 3,337,061, 8–22–67, Cl. 211—134.

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Caulier, Paul W., and C. Dixon, to General Electric Co. Shutter for pinhole detectors. 3,299,771, 1–24–67, Cl. 88—14.

Caulkins, Bruce D. Tire display. 3,307,282, 3–7–67, Cl. 40—125.

Caumartin, Yves, and H. Habermann, to Etat Francais (French State) represented by the Minister of Armed Forces, Ministerial Delegation of Armament, Direction of Researches and Manufacture of Armament, Laboratory of Ballistic and Aerodynamic Researches. Precision centrifuge. 3,313,139, 4–11–67, Cl. 73—1.

Caunt, Alan, to Metalastik Ltd. Flexible bearing mounting. 3,325,230, 6–13–67, Cl. 308—28.

Caunt, Alan, to Metalastik Ltd. Torsional vibration dampers and like assemblies. 3,334,886, 8–8–67, Cl. 267—1.

Causemann, Karl, to Barmer Maschinenfabrik Aktiengesellschaft. Hot melt screw extruder. 3,355,766, 12–5–67, Cl. 18—12.

Causey, Jerry L. Feeding device for invalids. 3,317,061, 5–2–67, Cl. 214—1.

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Cavagnaro, William A., to General Electric Co. Cartridge arrangement. 3,328,038, 6–27–67, Cl. 274—37.

Cavagnero, Erman V., to The Torrington Mfg. Co. Machine for coiling strip metal. 3,303,679, 2–14–67, Cl. 72—35.

Cavagnero, Erman V., to The Torrington Mfg. Co. Chip exhaust system. 3,322,037, 5–30–67, Cl. 90—11.

Cavalier, Gilbert, to Institut de Recherches de la Siderurgie Francaise. Apparatus for withdrawing samples from molten metal baths. 3,309,928, 3–21–67, Cl. 73—425.6.

Cavalier, Gilbert, to Institut de Recherches de la Siderurgie. Refractory alloy. 3,329,498, 7–4–67, Cl. 75—170.

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Cavanagh, John C. Process for the production of substantially fat free and flavor free proteinaceous foodstuffs. 3,295,985, 1–3–67, Cl. 99—17.

Cavanagh, John R., to International Arms Ltd. Reversible file holder. 3,318,453, 5–9–67, Cl. 211—11.

Cavanaugh, Edwin J. Power lawn mowers. 3,323,295, 6–6–67, Cl. 56—26.

Cavanaugh, George J. Carpet laying tool. 3,322,209, 5–30–67, Cl. 173—132.

Cavanaugh, Richard D., to Barry Wright Corp. Gravity-sensitive levelling. 3,310,263, 3–21–67, Cl. 248—23.

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Cave, Eric F., to Radio Corp. of America. Method of making composite insulator-semiconductor wafer. 3,300,832, 1–31–67, Cl. 29—25.3.

Cavedo, Robert P., to The Singer Co. Cord control mechanism for vacuum cleaners. 3,323,748, 6–6–67, Cl. 242—107.2.

Cavell, Matthew S., and S. H. Fishman. Wet scrubbing and vacuum cleaning apparatus. 3,355,762, 12–5–67, Cl. 15—321.

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Cayer, Arthur W. Measuring and dispensing device. 3,311,273, 3–28–67, Cl. 222—362.

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Caywood, James A., D. M. De Moss, E. C. Fitch, Jr., R. F. Osborn, and J. O. Matous, to Oklahoma State University of Agriculture & Applied Science. Automatic back hoe control system. 3,339,763, 9–5–67, Cl. 214—138.

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Cekada, Joseph, Jr., to Dow Corning Corp. Silicone rubber latexes reinforced with silsesquioxanes. 3,355,406, 11–28–67, Cl. 260—29.2.

Cekada, Joseph, Jr., and J. W. Van Dyke, to Dow Corning Corp. Antioxidation additives. 3,317,429, 5–2–67, Cl. 252—78.

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Cella, Richard T. Educational device. 3,304,627, 2–21–67, Cl. 35—8.

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Cella, Richard T. Zero gravity toilet. 3,340,544, 9–12–67, Cl. 4—10.

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Cerf, Lucien, to A. Cerf. Conveyor machine for packaging fruit and the like articles in casings of plastic material. 3,340,996, 9–12–67, Cl. 198—189.

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Cerny, Louis J., O. Cesareo, R. B. Curtis, J. G. Nightingale, and F. H. Parkinson, Jr., to Bell Telephone Laboratories, Inc. Equipment for operator served calls at an intermediate switching center. 3,341,662, 9–12–67, Cl. 179—27.

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Chabanier, Bernard, to La Spirotechnique. Breathing apparatus with control means for the inhaled gas mixture. 3,358,681 12–19–67, Cl. 128—142.2.

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Chambran, Jacques, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Metal ingots. 3,356,465, 12–5–67, Cl. 29—187.

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Chana, Howard E., C. S. Chapman, Jr., and F. H. Walker, to General Motors Corp. Fluid pressure control system and mechanism for control of vehicle road speed. 3,360,069, 12–26–67, Cl. 180—108.

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Chang, Leo S., R. B. Lund, A. C. Pierce, and E. Turi, to Allied Chemical Corp. Stabilized chlorinated polyethylenes containing boron compounds. 3,345,326, 10–3–67, Cl. 260—45.75.

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Chapman, Dennis C., K. O. Johnson, and S. A. Sgrol, to General Motors Corp. Variable configuration blade. 3,295,827, 1–3–67, Cl. 253—78.

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Chapman, Joseph E., III, to Schlumberger Technology Corp. Acoustic well logging display methods and apparatus. 3,333,237, 7–25–67, Cl. 340—15.5.

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Waldorf, Joseph F., Rzepecki, and Charbonneau. 3,322,-927.

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Kumins, Charles A., Chase, Fine, and Messmer. 3,322,562.
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Chasem, Theodore W., to Koppers Co., Inc. Shaft coupling. 3,357,208, 12-12-67, Cl. 64—9.
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Chellis, Fred F., to Arthur D. Little, Inc. Fluid-actuated cryogenic refrigerator. 3,321,926, 5-30-67, Cl. 62—6.
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Goldhammer, Jerome S. 3,349,687.
Goldhammer, Jerome S., Mohan, and Wayne. 3,325,594.
Shelley, Rick C. 3,331,652.
Singer, Joseph, Jr. 3,347,649.
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Krumholz, Alfred F., Sr. 3,327,953.
Krumholz, Alfred F., Sr. 3,352,501.
Chicago Bridge & Iron Co.: *See*—
Arnold, Perry C., Stanick, and Larsen. 3,306,642.
Chirico, Anthony N., and Dockendorff. 3,332,470.
Harmsen, Carl H., and Krasin. 3,303,321.
Horton, John T., Waugh, and Hicklen. 3,339,779.
Kaups, Taavi. 3,355,052.
Kells, Edward L., Strobert, and Washburn. 3,312,183.
Larsen, Lyle V. 3,357,089.
Mikesell, Walter R., Jr., and Zick. 3,298,794.
Pugh, Charles D. 3,305,328.
Ross, Eugene A. 3,323,166.
Sattlelberg, Stanley E., and Selcukoglu. 3,352,443.
Stafford, Donald C., and Chamberlin. 3,348,834.
Tam, William A. 3,358,459.
Walker, James D. 3,312,346.
Walker, James D. 3,339,901.
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Wigton, Theron W., and Tracy. 3,321,048.
Chicago Eastern Corp.: *See*—
Cowan, James A. 3,329,415.
Chicago Gasket Co.: *See*—
Clark, Robert A. 3,319,290.
Chicago Lock Co.: *See*—
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Chicago Machinery Laboratory, Inc.: *See*—
McCain, William B., and Bulka. 3,305,154.
Chicago Metallic Sash Co.: *See*—
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Jahn, Martin D. and R. H. 3,333,378.
Chicago Miniature Lamp Works: *See*—
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Amtsberg, Lester A., and Wallace. 3,354,754.
Coulter, John B., Jr. 3,301,009.
Fischer, Howard R., and Marcantonio. 3,322,395.
Gagne, Archie R. 3,322,394.
King, Smith F. 3,357,449.
McHenry, Kenneth A. 3,320,070.
McHenry, Kenneth A., and Amtsberg. 3,317,990.
Rudy, Stephen J. 3,326,307.
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Chick, Charles T., and I. M. Cohen. Entry alarm device. 3,340,522, 9–5–67, Cl. 340—274.
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Chiddix, Max E.: *See*—
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Chiddix, Max E., E. P. Williams, and R. L. Sundberg, to General Aniline & Film Corp. Spin bath additives. 3,298,962, 1–17–67, Cl. 252—357.
Chiddix, Max E., D. I. Randall, and W. Schmidt-Nickels, to General Aniline & Film Corp. Dyestuffs containing chloromethyl or bromomethyl groups. 3,301,846, 1–31–67, Cl. 260—163.
Chiddix, Max E., and J. L. McPherson, to General Aniline & Film Corp. Polypyrrolidones containing a mixture of N-methylol and N-methoxymethyl groups and process for preparation. 3,322,727, 5–30–67, Cl. 260—72.
Chiddix, Max E., and W. E. Daniels, to General Aniline & Film Corp. Process of preparing metal salts of lactams. 3,346,566, 10–10–67, Cl. 260—239.3.
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Chieger, George, and A. F. Hulverson, to Fruehauf Corp. Axle lift (radius rod). 3,315,978, 4–25–67, Cl. 280—104.5.
Chien, Robert T., and C. V. Freiman, to International Business Machines Corp. Information processing system utilizing a key to address transformation circuit. 3,317,899, 5–2–67, Cl. 340—172.5.
Chien, Robert T., and J. J. Stein, to International Business Machines Corp. Error control of digital information signals with inherent information redundancy. 3,353,155, 11–14–67, Cl. 340—146.1.
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Childers, Spencer L., J. W. Howard, and W. O. Clark, to The Vendo Co. Apparatus for automatic sales totalization. 3,355,576, 11–28–67, Cl. 235—61.7.
Childres, Clifford W., to Phillips Petroleum Co. Polymer stabilization. 3,329,645, 7–4–67, Cl. 260—33.6.
Childress, Albert F. Sound suppressor with baffle grids arranged across fluid stream passageway. 3,347,338, 10–17–67, Cl. 181—56.
Childress, Clyde O., and J. Day, to Electrostatic Printing Corp. of America. Electrostatic printing with powder applied to screen on printing side. 3,340,803, 9–12–67, Cl. 101—114.
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Bell, Stanley C., and Childress. 3,300,481.
Bell, Stanley C., and Childress. 3,316,244.
Bell, Stanley C., and Childress. 3,329,676.
Bell, Stanley C., and Childress. 3,344,136.
Bell, Stanley C., Childress, and Sulkowski. 3,336,296.
Freed, Meier E., and Childress. 3,314,960.
Sulkowski, Theodore S., and Childress. 3,329,679.
Childress, Scott J., S. C. Bell, and T. S. Sulkowski, to American Home Products Corp. 2-amino-5-chloro-α-phenylbenzyl amine. 3,321,522, 5–23–67, Cl. 260—570.
Childs, Clifford F. Package for liquid coating material. 3,321,070, 5–23–67, Cl. 206—46.
Childs, George W., E. R. Pitcher, Jr., and E. L. Staples, Jr., to Recognition Equipment Inc. Vacuum actuated document feeder. 3,300,207, 1–24–67, Cl. 271—26.
Chill, Leonard, to Chevron Research Co. Polypropylene baling twine. 3,332,228, 7–25–67, Cl. 57—155.
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Elmes, Robert T., and Chilman. 3,339,639.
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Chilpan, Kurt C., to Maremont Corp. Traveler. 3,338,044, 8–29–67, Cl. 57—119.
Chilpan, Kurt C., to Maremont Corp. Spinning and twisting ring. 3,354,628, 11–28–67, Cl. 57—119.

Chilstrom, Allan L., to Allis-Chalmers Mfg. Co. Front mounted bedder (swingable front frames). 3,360,054, 12-26-67, Cl. 172—274.

Chilton, Edward A., to The Bendix Corp. Telemetering apparatus for converting a direct current signal to a proportionally varying frequency signal. 3,308,398, 3-7-67, Cl. 332—18.

Chilton, Edward A., to The Bendix Corp. Linear sawtooth current generator for generating a trapezoidal voltage wave form. 3,341,716, 9-12-67, Cl. 307—88.5.

Chilton, George E.: *See*—
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Drisch, Nicolas, Herrbach, and Rodier. 3,337,671.

Chin, Daniel Y. S., to Honeywell, Inc. Controllable timing circuit. 3,351,776, 11-7-67, Cl. 307—88.5.

Chin, Franklin, and P. Cane, to The Marbellite Co., Inc. Dual speed drive signal control system. 3,323,391, 6-6-67, Cl. 74—812.

Chin, Gilbert Y., and J. H. Wernick, to Bell Telephone Laboratories, Inc. Processing of magnetic materials. 3,331,714, 7-18-67, Cl. 148—120.

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Chin, Wesley S. C. Bottle cap and stand. 3,317,069, 5-2-67, Cl. 215—47.

Chin-Bow, James: *See*—
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Chini, Paolo, and A. Baradel, to SNAM—Societa per Azioni. Organo aluminum compounds and method for obtaining them. 3,321,487, 5-23-67, Cl. 260—340.6.

Chini, Paolo, M. Dolci, and M. de Maldé, to SNAM S.p.A. Compounds derived from allyl-addition of olefins to acetylene. 3,352,937, 11-14-67, Cl. 260—680.

Chinn, Leland J., to G. D. Searle & Co. 2,4-diamino-5,6,7,8-tetrahydro-6-phenylquinazoline and congeners. 3,299,068, 1-17-67, Cl. 260—256.4.

Chinn, Leland J., to G. D. Searle & Co. 1-aminoalkyl-5-[(halo/alkoxy)phenyl]-2-pyrrolepropionic acids. 3,349,091, 10-24-67, Cl. 260—268.

Chinneck, Edgar H., to Dowson & Dobson Ltd. Ceiling structures. 3,302,355, 2-7-67, Cl. 52—484.

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Chiou, Charles, and J. R. Garcia, to International Business Machines Corp. Method for forming electrical connections to a solid state device including electrical packaging arrangement therefor. 3,325,882, 6-20-67, Cl. 29—155.5.

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Chipman, Jack R., to The Magnavox Co. Means for fine tuning television receivers with A.F.C. disabler. 3,328,700, 6-27-67, Cl. 325—457.

Chipping, William S., to Northern Electric Co. Ltd. Mobile telephone instrument. 3,344,236, 9-26-67, Cl. 179—100.

Chirana Praha, narodni podnik: *See*—
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Chiras, Stanley J., and E. J. Mezey, to Olin Mathieson Chemical Corp. Monoalkylpentaborane-9 and the preparation thereof. 3,316,306, 4-25-67, Cl. 260—606.5.

Chirer, Ervin G.: *See*—
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Chirico, Anthony N., and J. D. Dockendorff, to Chicago Bridge & Iron Co. Method for concentrating solutions. 3,332,470, 7-25-67, Cl. 159—47.

Chirol, Francis. Process for the securing of precious stones or the like in their mount and products obtained by the application of the said process. 3,339,378, 9-5-67, Cl. 63—28.

Chisholm, Douglas S.: *See*—
Burczyk, Casimir A., and Chisholm. 3,309,441.
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Chisholm, Douglas S., to The Dow Chemical Co. Structural panels and structures therefrom. 3,296,755, 1-10-67, Cl. 52—81.

Chisholm, Douglas S., to The Dow Chemical Co. Method for producing coated articles. 3,301,932, 1-31-67, Cl. 264—174.

Chisholm, Douglas S., to The Dow Chemical Co. Method and apparatus for the generation of a plurality of layers in a flowing stream. 3,328,003, 6-27-67, Cl. 259—4.

Chisholm, Douglas S., to The Dow Chemical Co. Processing of plastic. 3,358,323, 12-19-67, Cl. 18—2.6.

Chisholm, Douglas S., to The Dow Chemical Co. Curve tracing and apparatus therefor. 3,358,325, 12-19-67, Cl. 18—5.

Chisholm, Douglas S., and T. Alfrey, Jr., to The Dow Chemical Co. Interfacial surface generator and method of preparation thereof. 3,358,749, 12-19-67, Cl. 165—141.

Chisholm, James J.: *See*—
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Chisholm, James M., to Emery Industries, Inc. Drycleaning process in which garments are initially contacted with an organic solvent-water-detergent concentrate. 3,345,123, 10-3-67, Cl. 8—142.

Chisholm, Pat T. W., to Halliburton Co. Multiple closed in pressure sampling apparatus and method. 3,358,755, 12-19-67, Cl. 166—3.

Chisholm, Raymond S.: *See*—
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Chisholm, Raymond S., G. E. Sleighter, and F. M. Ernsberger, to Pittsburgh Plate Glass Co. Method of increasing stain resistance of a glass body subjected to an ion exchange strengthening set-up. 3,356,477, 12-5-67, Cl. 65—30.

Chisholm, Roy D.: *See*—
Lewis, Walter E., and Chisholm. 3,348,023.

Chisholm, Roy D., to General Electric Co. Safety control mechanism for high temperature oven. 3,301,999, 1-31-67, Cl. 219—393.

Chisholm, Roy D., to General Electric Co. Air inlet means for self-cleaning oven. 3,358,674, 12-19-67, Cl. 126—193.

Chisholm-Ryder Co., Inc.: *See*—
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Chisholm, Stanley L. Corrosion protection for metals. 3,311,529, 3-28-67, Cl. 161—213.

Chisler, Paul E., to The McKay Co. Master link for suspension device and manufacture thereof. 3,299,628, 1-24-67, Cl. 59—84.

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Moto, Tatsuya, Aotani, and Matsubara. 3,341,496.
Yoshikawa, Etsuro, and Morita. 3,322,661.

Chitayat, Anwar K., to Optomechanisms, Inc. Means for transmitting plural images through a fiber optic cable. 3,303,739, 2-14-67, Cl. 88—1.

Chitouras, John G., and J. H. Sununu, to Astrodyne, Inc. Heat sink. 3,312,277, 4-4-67, Cl. 165—185.

Chitwood, Henry C., B. T. Freure, and R. W. Cunningham, to Union Carbide Corp. Stabilized catalyst for the dehydrogenation of 1-tetralone and/or 1-tetralol. 3,340,311, 9-5-67, Cl. 260—621.

Chiu, Chao F., and L. Hung. Pencil with self-refilling cartridges. 3,338,215, 8-29-67, Cl. 120—14.8.

Chiu, Herman S., and A. J. Veith, to Union Carbide Corp. Process of making a sausage casing with an organosiloxane. 3,307,956, 3-7-67, Cl. 99—176.

Chiuminatto, Joseph J. Changeable copy information display panel means. 3,295,241, 1-3-67, Cl. 40—64.

Chiusoli, Gian P., and G. Bottaccio, to Montecatini Edison S.p.A. Methyl decatrien-dioate and preparation thereof. 3,312,731, 4-4-67, Cl. 260—485.

Chiusoli, Gian P., and G. Mondelli, to Montecatini Societa Generale per l'Industries Mineraria e Chimica. Process for preparing the iron salt of cobalt hydrocarbonyl and cobalt hydrocarbonyl. 3,340,021, 9-5-67, Cl. 23—360.

Chivas, Norman J.: *See*—
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Chiville, John W., to Tecfab Inc. Slab anchor. 3,299,601, 1-24-67, Cl. 52—597.

Chiyoda, K.K.: *See*—
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Chiyoda Kako Kensetsu Kabushiki Kaisha: *See*—
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Amagasa, Masataka, Yamaguchi, and Saito. 3,359,339.
Gomi, Shinpei, Hara, and Kawajiri. 3,330,326.
Hirata, Hiroshi. 3,300,986.
Hirata, Hiroshi, and Tanaka. 3,333,725.

Chládek, Otokar, to Elitex, Zavody Textilniho Strojirenstvi. Lubricant dispensing device. 3,306,496, 2-28-67, Cl. 222—137.

Chlique, Bernard: *See*—
Pacault, Pierre H., and Chlique. 3,304,712.

Chloupek, LeRoy A., and K. Sekmakas, to DeSoto Chemical Coatings, Inc. Solvent solution of an alkylol ethylenically unsaturated amide copolymer having at least a portion of said alkylol groups etherified with a mixture of a monohydric alcohol and a polyhydric alcohol. 3,300,439, 1-24-67, Cl. 260—33.4.

Chloupek, LeRoy A., and K. Sekmakas, to DeSoto Chemical Coatings, Inc. Solvent-soluble, heat-hardening, non-gelled resin comprising acrylamide-containing interpolymers carrying a reactive hydroxy group condensed with hydroxy-terminated polysiloxane. 3,318,971, 5-9-67, Cl. 260—826.

Chlumberger, Etienne M., to Conch International Methane Ltd. Two-phase spray system for filling tanks. 3,339,847, 9-5-67, Cl. 239—413.

Chlystun, Walter K. Container with pouring spout. 3,298,577, 1-17-67, Cl. 222—529.

Chmela, John F., to Anfinsen Plastic Molding, Inc. Pouring spout. 3,300,106, 1-24-67, Cl. 222—517.

Chmelik, George F., J. Danaczko, Jr., J. Johnsen, and J. E. Kinsey, to Western Electric Co., Inc. Method of fluxing an article to be soldered with noncorrosive fluxing compositions. 3,305,406, 2-21-67, Cl. 148—23.

Chmielewski, Jerry H. Device for removing pulleys and the like from shafts. 3,299,497, 1-24-67, Cl. 29—258.

Chmura, Gene. Sliding window lock. 3,347,585, 10-17-67, Cl. 292—294.

Chmura, Theodore S., to American Bosch Arma Corp. Fuel delivery system. 3,312,209, 4-4-67, Cl. 123—140.

Cho, Chi L., to W. Pfister. Internal micrometer. 3,319,342, 5-16-67, Cl. 33—178.

Cho, Hideo. Apparatus for spreading fabric. 3,335,474, 8-15-67, Cl. 26—54.

Cho, Yohan, to Massachusetts Institute of Technology. Oscillator including a tunnel diode as a two level switch. 3,317,855, 5-2-67, Cl. 331—111.

Choate, Paul V., to Novis Industries, Inc. Rockets and combinations of rockets and cases. 3,326,128, 6-20-67, Cl. 102—38.

Choate, Paul V., and M. A. Nee, to Norris Industries, Inc. Non-spin rocketa and their guidance. 3,319,566, 5-16-67, Cl. 102—49.7.

Choay, Jean, M. Thely, and E. Vairel, to Laboratoire Choay. Somatotropic hormone. 3,306,823, 2-28-67, Cl. 167—74.

Chodnekar, Madhukar S., A. F. Growther, and R. Howe, to Imperial Chemical Industries Ltd. Administration of 1,4-benzodioxan derivatives to produce beta-adrenergic blockade. 3,312,592, 4-4-67, Cl. 167—65.

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Geraci, John, and Chodsky. 3,304,316.

Chodsky, Sergey V., and J. Geraci, to Guard Chemical Co., Inc. Water-soluble, normally solid organic mercury composition and novel organic mercury addition compounds. 3,297,524, 1-10-67, Cl. 167—42.

Chohen, Charles, and A. A. Evans, to Charles Bar-Lok Corp. Locking bar for patio door. 3,328,920, 7-4-67, Cl. 49—449.

Chojnowski, Boguslaw: *See*—
Horn, George, and Chojnowski. 3,355,609.

Choldun Mfg. Corp., The: *See*—
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Cholet, Jacques, and J.-P Fail, to Institut Francais du Petrole des Carburants et Lubrifiants. Apparatus for firing explosive charges under water. 3,360,070, 12-26-67, Cl. 181—.5.

Cholin, Roger R. Internal cable discharge device. 3,316,974, 5-2-67, Cl. 169—26.

Chombard, Pierre A., to Societe Francaise d'Equipments pour la Navigation Aerienne. Erectors of vertical gyroscopes. 3,357,263, 12-12-67, Cl. 74—5.44.

Chombard, Pierre A., to Societe Francaise d'Equipements pour la Navigation Aerienne. Device for reducing the action of unstable pendulum erectors on vertical gyroscopes. 3,358,515, 12-19-67, Cl. 74—5.44.

Chomel, Marc L., and M. A. Tiano, to Rhone-Poulenc S.A. Closure devices for tanks or like containers for liquid. 3,308,987, 3-14-67, Cl. 220—57.

Choo, Chai Y., to Halcon International, Inc. Ketoxime production. 3,312,612, 4-4-67, Cl. 204—162.

Chope, Henry R., to Industrial Nucleonics Corp. Position indicating apparatus. 3,358,279, 12-12-67, Cl. 340—347.

Chope, Henry R., to Industrial Nucleonics Corp. Method and apparatus for detecting and identifying remote objects. 3,358,602, 12-19-67, Cl. 102—38.

Chopelin, Bruno C., to Etablissements Henry Potez. Safety device for a constant-level flow regulator. 3,338,262, 8-29-67, Cl. 137—400.

Chopoorian, John A.: *See*—
Roberts, George L., Jr., and Chopoorian. 3,322,552.

Chopoorian, John A., to American Cyanamid Co. Photochromic compositions comprising doped inorganic metal oxides suspended in polyester binders. 3,317,321, 5-2-67, Cl. 96—88.

Chopoorian, John A., to American Cyanamid Co. Compositions of matter composed of vinyl polymers and inorganic photochromic oxides. 3,329,648, 7-4-67, Cl. 260—41.

Chopra, Sohinder N., and G. H. Guild, to Chemcell Ltd. Retreatment of synthetic fibres. 3,344,218, 9-26-67, Cl. 264—176.

Chopyk, John P.: *See*—
Thresher, David W., and Chopyk. 3,327,343.

Choquette, Aime. Water and humidity distributor for plants. 3,334,440, 8-8-67, Cl. 47—35.

Choquette, J Walter, Jr., and W. H. Ridley, to The Foxboro Co. Boil control system. 3,350,012, 10-31-67, Cl. 236—17.

Chor, John, Jr., and L. N. Hodson, to The Hodson Corp. Lubricant composition. 3,341,454, 9-12-67, Cl. 252—22.

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Myers, Lawrence A. 3,323,711.

Chorkey, William J. Check valve. 3,298,394, 1-17-67, Cl. 137—525.

Chorney, Paul, and J. Valun, to United States of America, Navy. Monolithic cathode structure. 3,303,378, 2-7-67, Cl. 313—346.

Choulings, Leslie C., to Automotive Products Co. Ltd. Automatic adjusting means for liquid-pressure operated brakes. 3,322,244, 5-30-67, Cl. 188—196.

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Cislo, Stanley, J., to Ford Motor Co. Ball joint construction. 3,343,857, 9–26–67, Cl. 287—90.

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Clark, Harold A., and E. P. Plueddermann, to Dow Corning Corp. Acryloxyalkylsilane compositions and the fabrication of structures therewith. 3,317,369, 5–2–67, Cl. 161—193.
Clark, Harold A., and L. A. Haluska, to Dow Corning Corp. Hydroxyorganosiloxanes and copolymers. 3,317,460, 5–2–67, Cl. 260—46.5.
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Clark, Harold E., R. W. Gundlach, and L. E. Walkup, to Xerox Corp. Forming of printing plates. 3,315,602, 4–25–67, Cl. 101—401.1.
Clark, Harold E., and R. F. Wolf, to General Motors Corp. Signal pickoff and torque generator. 3,327,541, 6–27–67, Cl. 74—5.46.
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Clark, James L., to Plastronics, Inc. Method for making a sealed connection between a tube and a container. 3,322,590, 5–30–67, Cl. 156—273.
Clark, James L., to Plastronics, Inc. Valve for controlling flow through a flexible tube. 3,329,389, 7–4–67, Cl. 251—4.
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Clark, James T., to Clark-Feather Mfg. Co. Tool for installing split valve spring retainers on valve stems. 3,316,623, 5–2–67, Cl. 29—249.
Clark, James T., to Clark-Feather Mfg. Co. Cylinder honing tools. 3,324,606, 6–13–67, Cl. 51—346.
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Clark, Jesse K., and J. A. Draghi, to M. H. Rhodes, Inc. Presettable timer. 3,358,092, 12–12–67, Cl. 200—38.
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Clarke, Graham M., N. Forbes, A. T. Shepherd, and D. F. Walker, to Ferranti, Ltd. Measuring apparatus employing laser devices. 3,326,078, 6–20–67, Cl. 88—14.
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Clifford, Richard P., to TRW Inc. Differential radiometer having high and low absorption characteristics. 3,348,047, 10–17–67, Cl. 250—83.3.

Clifford, Richard P., to TRW Inc. Constant sensitivity differential radiometer. 3,355,589, 11–28–67, Cl. 250—83.3.

Cliffs Dow Chemical Co.: *See*—
Klink, John D., and Goos. 3,297,420.

Clifton Precision Products Co., Inc.: *See*—
Little, Joseph R. 3,334,412.

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McAdams, Hugh P., Jr. 3,332,005.

Clifton, Walter J.: *See*—
Wiener, Melvin, and Clifton. 3,333,560.

Clifton Yarn Mills, Inc.: *See*—
Susskind, John W. and W. B. 3,308,615.

Climar A.G.: *See*—
De Longuyon, Ernst. 3,311,975.

Climate Mfg. Co., Inc.: *See*—
Sage, Lyle, Van Schaick, and Hermansen. 3,327,609.

Climet Instruments Inc.: *See*—
Kingman, Edward F. 3,339,409.

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Cline, Charles D., and B. A. Vance, to Newman Dukes & Cline, Inc. Weight securing means on a bar bell assembly. 3,305,234, 2–21–67, Cl. 272—84.

Cline, Edward T., to E. I. du Pont de Nemours and Co. Oxyluminescent compositions containing dehydrating agents. 3,311,564, 3–28–67, Cl. 252—188.3.

Cline, Edward T., to E. I. du Pont de Nemours and Co. Oxyluminescent light sources and processes of making same. 3,350,553, 10–31–67, Cl. 240—2.25.

Cline, Edward T., to E. I. du Pont de Nemours and Co. Oxyluminescent panel. 3,360,426, 12–26–67, Cl. 161—196.

Cline, Eugene W. Drag saw. 3,301,285, 1–31–67, Cl. 144—34.

Cline, Oliver I., Jr., to Celanese Coatings Co. Acrylamide modified oils. 3,345,312, 10–3–67, Cl. 260—21.

Cline, Robert W., to Goshen Rubber Co., Inc. Apparatus for making a grooved ring seal. 3,335,624, 8–15–67, Cl. 82—2.

Cline, Truman H.: *See*—
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Cline, Vincent C. Flexible scraper. 3,351,969, 11–14–67, Cl. 15—245.

Clinical Products Ltd.: *See*—
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Malden, Clinton E., and Gedgaudas. 3,304,926.

Clinton Engines Corp.: *See*—
Haas, Lowell E. 3,324,842.
Tuggle, Lloyd H. 3,345,045.

Clinton, Henry H., to The Whitney Blake Co. Cable fault locator employing shielded tuned amplifier circuitry. 3,358,226, 12–12–67, Cl. 324—52.

Clinton, James R. Apparatus for sensing variations in light reflectivity of a moving surface. 3,313,945, 4–11–67, Cl. 250—236.

Clinton, Raymond O., to Sterling Drug Inc. Steroido[20,21-c]pyrazoles and intermediates. 3,317,520, 5–2–67, Cl. 260—239.5.

Clinton, Raymond O., and A. J. Manson, to Sterling Drug Inc. 2-cyano steroids. 3,296,255, 1–3–67, Cl. 260—239.55.

Clinton, Raymond O., and A. J. Manson, to Sterling Drug Inc. Steroido[21,20-d]isoxazoles. 3,313,809, 4–11–67, Cl. 260—239.55.

Clinton, Sam D.: *See*—
Haas, Paul A., and Clinton. 3,331,898.

Clinton Supply Co.: *See*—
Geltner, Edward B. 3,315,057.

Clinton, William D., D. R. Forry, J. J. Grimm, and R. W. Jones, to American Library Association. Apparatus for producing labels. 3,295,654, 1–3–67, Cl. 197—133.

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Coates, Neligh C., and Harclerode. 3,336,623.
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Rhodes, Harry W. 3,333,897.

Clites, Philip G., to United States of America, Atomic Energy Commission. Method and apparatus for melting metals by induction heating. 3,352,991, 11–14–67, Cl. 219—10.79.

Clix Fastener Corp.: *See*—
Bousquet, Andre. 3,327,362.

Clock, Gerald E.: *See*—
Woodland, Paul C., Clock, and Mildner. 3,344,228.

Clock, Gerald E., J. E. Rieke, and E. Stroiwas, to Dow Chemical Co. Electroluminescent structure with improved protective transparent film. 3,305,745, 2–21–67, Cl. 313—108.

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Cloots, Henry R., to Kimberly-Clark Corp. Article wrapping machine. 3,340,673, 9–12–67, Cl. 53—180.

Clopay Corp.: *See*—
Gossling, Robert C., and Wilcoxon. 3,299,944.

Cloppet, Raymond: *See*—
Danis, Francois, Cloppet, and Montanteme. 3,356,493.

Cloppet, Raymond, to Societe d'Electro-Chimie, d'Electrometallurgie et des Acieries Electriques d'Ugine. Process for the production of molybdenum dioxide. 3,336,100, 8–15–67, Cl. 23—21.

Clopton, James W. Ski pants hanger. 3,346,150, 10–10–67, Cl. 223—95.

Cloran, Thomas S., to Crucible Steel Co. of America. Method for producing alloy-steel articles. 3,341,325, 9–12–67, Cl. 75—225.

Cloran, Thomas S., and V. R. Thompson, to Crucible Steel Co. of America. Method for producing compacted articles having large length to diameter ratios. 3,340,055, 9–5–67, Cl. 75—214.

Cloran, Thomas S., and V. R. Thompson, to Crucible Steel Co. of America. Method for compacting powdered metals. 3,340,056, 9–5–67, Cl. 75—214.

Clorius, Mogens O.: *See*—
Werner, Georg C., Clorius, and Regenburg. 3,323,580.

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Beeby, John E. 3,348,667.

Clos, Karl, to Ernest Leitz G.m.b.H. Focusing device for telephoto objectives. 3,324,781, 6–13–67, Cl. 95—45.

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Close, Frederick J., to Aluminum Co. of America. Container and method of making same. 3,300,080, 1–24–67, Cl. 220—54.

Close, George M. Portable paint booth. 3,315,639, 4–25–67, Cl. 118—642.

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Allen, Terry S., Close, Lidia, and Sirrine. 3,301,074.

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Closmann, Philip J., to Shell Oil Co. Thermoaugmentation of oil-producing reservoirs. 3,358,762, 12–19–67, Cl. 166—40.

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Closson, Rex D., K. G. Ihrman, and A. H. Filbey, to Ethyl Corp. Promoted catalytic carbonylation of allylic halides. 3,338,961, 8–29–67, Cl. 260—544.

Clothier, Louis T. Baby washing and sanitary fixture. 3,302,215, 2–7–67, Cl. 4—7.

Cloud, Charles E., J. R. George, and L. N. Krohn, to Cloud Machine Corp. Method and apparatus for packaging. 3,344,576, 10–3–67, Cl. 53—28.

Cloud, Charles E., and L. N. Krohn, to Cloud Machine Corp. Apparatus for changing the size of plastic film cupping die of packaging machine. 3,353,218, 11–21–67, Cl. 18—35.

Cloud, Charles E., and R. G. King, to Cloud Machine Corp. Method of and apparatus for packaging elongated articles such as nipples. 3,353,329, 11–21–67, Cl. 53—30.

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Cloud, Harley A., to International Business Machines Corp. Transfluxor memory employing common read-write circuits. 3,328,785, 6–27–67, Cl. 340—174.

Cloud, Harold A., to Honeywell Inc. Shower control valve. 3,324,872, 6–13–67, Cl. 137—98.

Cloud Machine Corp.: *See*—
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Cloud, Charles E., and Krohn. 3,353,218.

Cloud, William S., Jr. Manufacture of plastic packages. 3,304,843, 2–21–67, Cl. 93—8.

Cloudy, Westley R., to Lewis Refrigeration Co. Food freezer and accelerated freezing process. 3,296,812, 1–10–67, Cl. 62—63.

Clough, George F. G., to Simon-Carves Ltd. Aeration of liquids. 3,323,782, 6–6–67, Cl. 259—108.

Clough, George F. G., and W. J. Wiltshier, to Simon-Carves Ltd. Aeration. 3,329,407, 7–4–67, Cl. 259—8.

Clough, Philip J., and R. W. Steeves, to National Research Corp. Radar countermeasure article. 3,300,781, 1–24–67, Cl. 343—18.

Clough, Philip J., and P. Fowler, to National Research Corp. Process for vacuum depositing high purity superconductible niobium films without the use of high vacuum. 3,338,744, 8–29–67, Cl. 117—227.

Clough, Thomas J., and D. W. Young, to Sinclair Research, Inc. Copolymer of butadiene and normal alpha-olefins. 3,344,204, 9–26–67, Cl. 260—680.

Clougherty, Leo B., J. Keramedjian, and J. Nickrand, to Chrysler Corp. Butadiene-acrylonitrile polymer-water soluble phenolformaldehyde resin-water insoluble phenolformaldehyde resin-water based adhesive. 3,326,825, 6–20–67, Cl. 260—14.

Clouthier, Robert G. File for vertically mounted tape reels. 3,298,530, 1–17–67, Cl. 211—40.

Clouthier, Robert G. File for removably supporting a plurality of reeled tapes. 3,323,847, 6–6–67, Cl. 312—20.

Cloutier, Adelbert P. Bedstead fastening. 3,305,8880, 2–28–67, Cl. 5—298.

Cloutier, Andre. Combination spirit and hydrostatic levels and chalk line. 3,309,774, 3–21–67, Cl. 33—87.

Cloutier, Charles C. Pressure stabilizing air volume control system. 3,339,513, 9–5–67, Cl. 114—50.

Clowers, Richard W. Crawler-track automotive vehicle. 3,333,651, 8–1–67, Cl. 180—9.22.

Clowes, Maxwell B., J. R. Parks, and D. O. Clayden, to National Research Development Corp. Character recognition systems and apparatus. 3,308,430, 3–7–67, Cl. 340—146.3.

Cloyd, Harold S., to Nosco Plastics, Inc. 3,297,190, 1–10–67, Cl. 220—21.

Cloyd, Harold S., to Nosco Plastics, Inc. Bottle case. 3,314,568, 4–18–67, Cl. 220—21.

Cloyd, Harold S., and R. W. Welch, to Nosco Plastics, Inc. Pallet. 3,307,504, 3–7–67, Cl. 108—58.

Cloyd, Harold S., R. M. Dudley, R. T. Mangold, and R. W. Welch, to Nasco Plastics, Inc. Container. 3,307,739, 3–7–67, Cl. 220—97.

Cloyd, Harold S., and R. T. Mangold, to Nosco Plastics, Inc. Hypodermic syringe. 3,330,004, 7–11–67, Cl. 18—36.

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Clumpner, Joseph A., and J. E. Dore, to Olin Mathieson Chemical Corp. Apparatus for quenching metal. 3,300,198, 1–24–67, Cl. 266—6.

Clumpner, Joseph A., and J. E. Dore, to Olin Mathieson Chemical Corp. Apparatus and method for quenching metal extrusions. 3,303,062, 2–7–67, Cl. 148—13.

Clune, James P., and H. H. Hall, Jr., to Sylvania Electric Products, Inc. Radiant heat reflecting device. 3,327,041, 6–20–67, Cl. 13—20.

Clune, Richard R., and H. Schelbler, to P. R. Mallory & Co., Inc. Electric current producing cell. 3,332,802, 7–25–67, Cl. 136—83.

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Mullin, John T., and Clunis. 3,346,703.

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McFalls, Richard J., Adams, and Tural. 3,329,556.
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Clure, Claremont F. Safety device. 3,313,320, 4–11–67, Cl. 138—89.

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Clute, Francis H. 3,304,578.

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Clutz, Garland W., and L. E. Garono, to United States of America, Army. Expendable dual-purpose rocket launcher shipping container. 3,357,305, 12–12–67, Cl. 89—1.815.

Cluwen, Johannes M., to North American Phillips Co. Transistor element and transistor circuit. 3,299,281, 1–17–67, Cl. 307—88.5.

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Shand, Thomas G., and Clyde. 3,335,469.

Clynch, Frank: *See*—
Cole, Jimmy R., and Clynch. 3,329,930.

Clyne, John P., to The British Iron and Steel Research Association. Billet mill indication system. 3,331,952. 7–18–67, Cl. 235—151.11.

Clyne, Robert W. Product handling apparatus. 3,303,920, 2–14–67, Cl. 198—154.

Clynes, Manfred E., to Air-Shields, Inc. Ultrasonic cardiac volume measurements. 3,310,049, 3–21–67, Cl. 128—2.05.

Clynes, Manfred E., to Air-Shields, Inc. Ultrasonic diagnostic instrument having improved resolution and sensitivity. 3,323,512, 6–6–67, Cl. 128—2.

Cnota, Z. Roman. Electrolytic metal processing control circuit. 3,336,214, 8–15–67, Cl. 204—228.

Coach and Car Equipment Corp.: *See*—
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McVeigh, Robert J. 3,313,570.

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Coaker, Antony W. M., O. P. Cohen, and J. W. Ryan, to Monsanto Co. Blends of (1) graft copolymer of vinyl chloride onto chlorinated polyolefin, (2) diene-nitrile rubber and (3) ethylene-vinyl acetate copolymer. 3,297,792, 1–10–67, Cl. 260—876.

Coaker, Antony W. M., O. P. Cohen, and J. W. Ryan, to Monsanto Co. Polymeric blends containing a graft copolymer of vinyl chloride onto chlorinated or chlorosulfonated polyolefin. 3,322,857, 5–30–67, Cl. 260—876.

Coaker, Antony W. M., and O. P. Cohen, to Monsanto Co. Multicomponent blends containing graft copolymer of vinyl chloride onto ethylene-vinyl acetate copolymer. 3,322,858, 5–30–67, Cl. 260—876.

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Dowell, Joseph. 3,351,385.
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Coan, Robert L. Process of adhering stainless steel to aluminum and products produced thereby. 3,295,198, 1–3–67, Cl. 29—527.

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Coanda, George, to Pharmaseal Laboratories. Hypodermic syringe. 3,354,882, 11–28–67, Cl. 128—218.

Coanda, George, and R. A. Ekbom, to Pharmaseal Laboratories. Tubing clamp. 3,357,674, 12–12–67, Cl. 251—7.

Coanda, Henri. Apparatus for transporting atomizable material. 3,321,891, 5–30–67, Cl. 55—103.

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Cape, Arthur T. 3,316,086.
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Cape, Arthur T. 3,355,287.
Cape, Arthur T. 3,359,084.

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Coate, William C. E., to The Lodge & Shipley Co. Magazine for a machine tool. 3,296,903, 1–10–67, Cl. 82—34.

Coate, William C. E., to Lodge & Shipley Co. Turret for a machine tool. 3,316,786, 5–2–67, Cl. 82—36.

Coates, Charles E., 50% to W. A. Gay, Jr. Water closet ventilating unit. 3,335,431, 8–15–67, Cl. 4—213.

Coates, Clarence L., Jr., and P. M. Lewis II, to General Electric Co. Accumulator. 3,300,628, 1–24–67, Cl. 238—173.

Coates, Harold, and P. A. T. Hoye, to Albright & Wilson (Mfg.) Ltd. Production of organotin-phosphorus compounds. 3,308,142, 3–7–67, Cl. 260—429.7.

Coates, Harold J.: *See*—
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Coates, Herbert W., J. F. Baigas, Jr., M. J. Hamilton, and J. T. Haynes, Jr., to Kem-Wove Industries, Inc. Non-woven textile products and the method of fabricating the same. 3,312,224, 4–4–67, Cl. 128—516.

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Wakeman, Reginald L., and Coates. 3,314,958.
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Coates, Nell H.: *See*—
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Bergy, Malcolm E., Coats, Hanka, and Johnson. 3,300,382.
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Cobaugh, Robert F.: *See*—
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Cobaugh, Robert F., to AMP Inc. Tool for making electrical connections for a series of terminal posts. 3,330,022, 7–11–67, Cl. 29—203.

Cobaugh, Robert F., and M. A. Shrock, to AMP Inc. Mounting and connecting means for circuit devices. 3,345,541, 10–3–67, Cl. 317—101.

Cobaugh, Robert F., D. H. May, and G. T. Ritter, Jr., to AMP Inc. Dies for applying insulation to an electrical connector. 3,345,692, 10–10–67, Cl. 18—36.

Cobb, Clifton A., and R. W. Spiegel, to Whirlpool Corp. Agitator with controlled vane flexure. 3,307,383, 3–7–67, Cl. 68—134.

Cobb, Edward S., and C. F. Jackson, to Owens-Corning Fiberglas Corp. Yarn texturizing jet. 3,328,863, 7–4–67, Cl. 28—1.

Cobb, Harold R. W.: *See*—
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Cobb, James E.: *See*—
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Cobb, James S., Jr., to E. I. du Pont de Nemours and Co. Cooperating guide means and reciprocable tool holder. 3,299,760, 1–24–67, Cl. 83—635.

Cobb, James S., Jr., to E. I. du Pont de Nemours and Co. Spinnerette. 3,303,530, 2–14–67, Cl. 18—8.

Cobb, James S., Jr., to E. I. du Pont de Nemours and Co. Spinneret surface finishing. 3,349,522, 10–31–67, Cl. 51—324.

Cobb, James S., Jr., to E. I. du Pont de Nemours and Co. Spinnerette. 3,357,048, 12–12–67, Cl. 18—8.

Cobb, Jesse M., to Indak Mfg. Corp. Push button switches having wiping contact between a flexible contact blade and an apertured contact member. 3,299,238, 1–17–67, Cl. 200—159.

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Cobb, Phara L., Jr., and J. B. Stevens, to Eastman Kodak Co. Apparatus for forming rods from continuous filament tow. 3,297,512, 1–10–67, Cl. 156—433.

Cobb, Raymond L., to Phillips Petroleum Co. Sulfolane compounds. 3,357,996, 12–12–67, Cl. 260—332.1.

Cobb, William R., to Westinghouse Electric Corp. Container assembly. 3,295,904, 1–3–67, Cl. 312—270.

Cobble, James A., Jr.: *See*—
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Cobble, James A., Sr., and J. A. Cobble, Jr. 3,352,265.

Cobble, James A., Sr., and J. A. Cobble, Jr., to Southern Machine Co., Inc. Fabric feed drive. 3,326,156, 6–20–67, Cl. 112—203.

Cobble, James A., Sr., and J. A. Cobble, Jr. Tufting machine having vertically adjustable needle plate. 3,332,379, 7–25–67, Cl. 112—79.

Cobble, James A., Sr., and J. A. Cobble, Jr., to Southern Machine Co., Inc. Backing fabric lateral shifting arrangement for tufting and like machines. 3,352,265, 11–14–67, Cl. 112—79.

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Cobbledick, David S., and H. M. Walton, to A. E. Staley Mfg. Co. Polymerizable vicinal acryloxy-halo, long-chain aliphatic compounds. 3,304,275, 2–14–67, Cl. 260—22.

Cobbledick, David S., and R. R. Reschetz, to A. E. Staley Mfg. Co. Polymerizable compositions comprising vicinal acryloxy glyceride, acid acrylic compound and filler. 3,337,484, 8–22–67, Cl. 260—23.5.

Cobbs, James H.: *See*—
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Coberly, Clarence J., to Kobe, Inc. Apparatus for running equipment into and out of offshore wells. 3,326,285, 6–20–67, Cl. 166—.6.

Coberly, Clarence J., to Kobe, Inc. Multiple zone well completion with separate inlet tubings and a common production tubing. 3,326,290, 6–20–67, Cl. 166—68.

Coberly, Clarence J., C. J. Coberly, Jr., and R. G. Ralph, to Kobe, Inc. Apparatus for running equipment into and out of offshore well completions. 3,307,631, 3–7–67, Cl. 166—75.

Coberly, Clarence J., Jr.: *See*—
Coberly, Clarence J., C. J. Coberly, Jr., and Ralph. 3,307,631.

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Cobley, Patrick M. T., to Humber Ltd. Engine cooling and interior heating systems in motor vehicles. 3,309,020, 3–14–67, Cl. 237—8.

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Coburn, Herbert D., Jr., to Texas Instruments Inc. Control of marine seismic systems. 3,359,536, 12–19–67, Cl. 340—7.

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Newman, Herman, and Coby. 3,299,553.

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Cocco, Henry A. Tool post. 3,308,697, 3–14–67, Cl. 82—36.

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Cochardt, Alexander W., to Westinghouse Electric Corp. Ferrite magnets. Re. 26,153, 1–31–67, Cl. 252—62.5.

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Cochin, Solomon. Captive closure for a container. 3,352,445, 11–14–67, Cl. 220—30.5.

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Cochran, John T., to General Electric Co. Pressure recovery axial flow vapor-liquid separator. 3,329,130, 7–4–67, Cl. 122—34.
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Cocito, Joe M. Vacuum board valves. 3,307,817, 3–7–67, Cl. 248—362.
Cocito, Joe M. Vacuum board manifold. 3,307,818, 3–7–67, Cl. 248—362.
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Cockerell, Christopher S., to Hovercraft Development Ltd. Gas-cushion vehicles. 3,321,037, 5–23–67, Cl. 180—7.
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Coe, David G., and D. B. Pattison, to E. I. du Pont de Nemours and Co. Process for preparing fluorinated dioxolanes. 3,324,144, 6–6–67, Cl. 260—340.9.
Coe, David G., and E. J. Bennett, to E. I. du Pont de Nemours and Co. Trichlorotrifluoroethane hexafluoropropanol composition. 3,330,776, 7–11–67, Cl. 252—364.
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Cofer, Daniel B., D. D. Proctor, and G. C. Ward, to Southwire Co. Casting wheel cooling method. 3,333,624, 8–1–67, Cl. 164—87.

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Cogswell, George W., and L. P. Hayes, to A. E. Staley Mfg. Co. Non-woven fabric prepared with methylol amides of and adduct formed between a maleyl compound and ethylenically unsaturated aliphatic compound. 3,345,207, 10–3–67, Cl. 117—140.
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Cohen, David A. Ceiling attachment for lighting fixtures. 3,302,918, 2–7–67, Cl. 248—343.
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Cohen, Harvey M., to National Research Corp. Improved process for manufacture of coated superconductive ribbons. 3,327,370, 6–27–67, Cl. 29—155.5.

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Cohen, Jerrold, to Hughes Aircraft Co. Bonding process. 3,298,093, 1–17–67, Cl. 29—473.1.

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Cohen, Marvin M., to United States of America, Army. Heart stimulator utilizing a pressure sensitive semiconductor. 3,358,690, 12–19–67, Cl. 128—419.

Cohen, Maurice. Garment display rack having hangers pivotally mounted on horizontal axes. 3,295,696, 1–3–67, Cl. 211—171.

Cohen, Maurice. Cabinet assembly for use with display rack. 3,351,401, 11–7–67, Cl. 312—201.

Cohen, Max, E. R. Elston, and J. Rosenblum, to Insco Enterprises, Inc. Liquid container. 3,298,591, 1–17–67, Cl. 229—7.

Cohen, Milton J. Blood withdrawal device and dispenser. 3,308,809, 3–14–67, Cl. 128—2.

Cohen, Morris, to The National Cash Register Co. Parallel adder using majority decision elements. 3,299,260, 1–17–67, Cl. 235—173.

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Cohen, Robert J., and O. M. Edelman, to General Precision Inc. Gyroscope flexible leads. 3,353,413, 11–21–67, Cl. 74—5.

Cohen, Ronald S., to Modern Teaching Associates, Inc. Automatic animal selective feeder. 3,303,822, 2–14–67, Cl. 119—51.

Cohen, Ronald S., to Modern Teaching Associates, Inc. Weight control apparatus for animals. 3,303,823, 2–14–67, Cl. 119—51.11.

Cohen, Samuel L. Container. 3,342,536, 9–19–67, Cl. 312—71.

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Cohen, Saul M., to Monsanto Co. Copolymers of ethylene and 2-hydroxymethyl-5-nor-bornene. 3,320,222, 5–16–67, Cl. 260—88.1.

Cohen, Sidney, and R. L. Wakeman, to Millmaster Onyx Corp. Composition for simultaneously laundering and softening fabrics. 3,325,404, 6–13–67, Cl. 252—8.75.

Cohen, Stanley A. Electrical plug key lock. 3,345,603, 10–3–67, Cl. 339—179.

Cohen, Theodore. Air conditioning system including humidity control sensing means. 3,346,040, 10–10–67, Cl. 165—21.

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Cohen, William. Combination watch frame for wrist and pendant wear. 3,307,345, 3–7–67, Cl. 58—88.

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Cohn, Adolph E. Combined notebook and flexible bag closure. 3,351,064, 11–7–67, Cl. 129—1.

Cohn, Bertram D. Occlusive device for inferior vena cava. 3,334,629, 8–8–67, Cl. 128—325.

Cohn, Charles C., to S. L. and C. C. Cohn, copartners trading and d.b.a. Colonial Alloys. Chemical brightening of aluminum. 3,301,787, 1–31–67, Cl. 252—79.4.

Cohn, Eugene, R. A. De Forest, and R. G. Frick, to Secon Metals Corp. Process of producing high temperature resistant insulated wire, such wire and coils made therefrom. 3,352,009, 11–14–67, Cl. 29—605.

Cohn, Irving H., to Simmonds Precision Products, Inc. Current limiter circuit for rebalancing bridge network. 3,335,359, 8–8–67, Cl. 323—9.

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Cohn, Marius: *See*—
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Cohn, Marius, to United States of America, Navy. General purpose majority-decision logic arrays. 3,296,424, 1–3–67, Cl. 235—152.

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Cohn, Morris I., and R. D. Perdue, to Mineral Industries Corp. of America. Reducing particle size of clay and rheology control of clay-water systems. 3,348,778, 10–24–67, Cl. 241—5.

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Coker, Cecil H., to Bell Telephone Laboratories, Inc. Speech wave analyzer. 3,327,058, 6–20–67, Cl. 179—1.

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Colas, Francois J. P. M. System of goods handlings by means of flexible pallets using lift trucks or other lifting devices. 3,347,185, 10–17–67, Cl. 108—51.

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Colombo, Umberto P., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for recovering iron, titanium and aluminum from the red slurries obtained in processing bauxite by the Bayer process. 3,295,924, 1–3–67, Cl. 23—143.
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Bre, Michel. 3,295,934.
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Charpentier, Maurice, and Brossard. 3,304,164.
Chaumont, Henri J. 3,353,304.
De Lajarte, Stephane D. 3,305,371.
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Fournel, Francis. 3,325,248.
Gaffard, Jean P. 3,338,130.
Galabert, Pierre, and Pillon. 3,352,015.
Jorgensen, Pierre. 3,348,199.
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Mattmuller, Rene. 3,334,982.
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Raffet, Michel. 3,344,917.
Tailleur, Andre. 3,355,811.
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Touvay, Robert. 3,321,289.
Touvay, Robert. 3,328,147.
Van Gaver, Georgette S., and Zednik. 3,305,537.
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Berger, Pierre A. 3,300,811.
Delporte, Claude. 3,295,363.
Grassin, Henri, and Meynard. 3,358,984.
Guillot, Claude. 3,326,026.
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Namy, Gerald, and Fillon. 3,342,472.
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Lesage, Daniel M. R. 3,329,821.
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Bouvier, Claude J. B. 3,349,376.
Brette, Yes-Jean F. 3,319,234.
Christol, Guy F. M. 3,345,638.
David, Charles A. M. 3,300,657.
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Patin, Pierre. 3,313,063.
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Buffet, Jean. 3,335,589.
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Compagnie Electro-Mecanique: *See*—
Hugot, Andre A. 3,334,283.
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Hoegl, Helmut, and Rotta. 3,316,321.
Tannenberger, Helmut, Schachner, and Simm. 3,350,230.
Weisang, Joseph E., and Weill. 3,318,968.
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Brouard, Dominique, and Ragot. 3,336,437.
Cassagne, Pierre, and Melchior. 3,296,367.
De France, Henri. 3,303,274.
Melchior, Gerard, and Cassagne. 3,348,168.
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Compagnie Francaise Thomson-Houston: *See*—
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Drabowitch, Serge V. 3,308,469.
Guyot, Lucien F. 3,353,983.
Mesta, Lucien J. 3,304,455.
Pehe, Francois M., and Gerlach. 3,305,748.
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Alfandari, Roger S., Pauchard, and Pircher. 3,321,718.
Beurtheret, Charles A. E. 3,299,949.
Beurtheret, Charles A. E. 3,306,350.
Billottet, Henri C. 3,343,161.
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Lyon-Caen, Robert. 3,321,716.
Nard, Georges, Pagazani, and Palazo. 3,332,077.
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Sarrois, Jean M. 3,307,063.
Touze, Pierre. 3,347,477.
Touze, Pierre. 3,356,133.
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Blezunski, Georges, Mangest, and Peres. 3,353,711.
Moricet, Jean-Paul. 3,298,517.
Compagnie Generale d'Electricite: *See*—
Biet, Jean-Pierre. 3,337,750.
Biet, Jean-Pierre. 3,346,802.
Biet, Jean-Pierre, and Chaupit. 3,333,182.
Biet, Jean-Pierre, and Chaupit. 3,355,657.
Crepel, Jean, and Zacar. 3,349,200.
Dierick, Pierre. 3,327,266.
Donadieu, Lucien. 3,349,169.
Ebersohl, Gerard. 3,340,462.
Gallet, Georges, and Guenel. 3,348,284.
Klein, Georges. 3,320,443.
Klein, Georges. 3,360,666.
Klein, Georges, and Dubois. 3,355,604.
Kloeckner, Edmond A., and Royet. 3,355,051.
Muenler, Georges, and Rubinowicz. 3,356,978.
Roth, Adrien W., Catella, and Nicoud. 3,300,610.
Royet, Jean. 3,302,415.
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Vuillermet, Marcel. 3,299,386.
Compagnie Generale d'Electro-Ceramique: *See*—
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Stern, Marius. 3,339,410.
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Massoubre, Jean-Marie. 3,357,470.
Travers, Georges L. 3,301,303.
Travers, Georges L. 3,302,681.
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Compton, Dinsdale M. J., V. J. Lyons, and P. J. McDade, to International Business Machines Corp. Semiconductor compound crystals. 3,302,998, 2–7–67, Cl. 23—204.
Compton, Donald R., and J. B. Fitzgerald, to ACF Industries, Inc. Fuel pump. 3,333,547, 8–1–67, Cl. 103—150.
Compton, Homer C., Jr. Paint brush guide. 3,337,894, 8–29–67, Cl. 15—166.
Compton, James A., J. D. Allen, and R. G. Holt, to Fawick Corp. Proportional flow divider combiner. 3,347,254, 10–17–67, Cl. 137—101.
Compton, Robert H., O. F. Hamann, and R. G. Steadman, to Stromberg-Carlson Corp. Cathode ray tube control circuitry utilizing two accelerating windings. 3,340,420, 9–5–67, Cl. 315—14.
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Comstock, Eldred H., Jr., and R. G. Martin, to United States of America, Navy. Interlock system. 3,327,169, 6–20–67, Cl. 317—18.
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Conard, Robert G., R. A. Deep, T. N. L. Pughe, H. H. Henriksen, and W. E. Thomas, to United States of America, Army. Rocket motor case vent system. 3,295,324, 1–3–67, Cl. 60—254.
Conard, Robert G., and W. C. McCorkle, Jr., to United States of America, Army. Wind-insensitive missile. 3,305,194, 2–21–67, Cl. 244—3.21.
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Conard, Wendell R., to The Firestone Tire & Rubber Co. Reaction product of an alkylated phenal and phosphate acid process for making same. 3,330,887, 7–11–67, Cl. 260—920.
Conason, Emil G., and O. Neracher, to West Laboratories, Inc. Aldosterone in the treatment of psoriasis. 3,328,254, 6–27–67, Cl. 167—77.
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Saunders, Charles W., and Thalmann. 3,314,115.
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Rossi, Irving. 3,349,836.
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Concentric (Engineering) Ltd.: *See*—
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Carr, Jackson O. 3,315,477.
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Whitfield, Homer G. 3,322,251.
Condit, Harry G. Portable power saw with safety switch means to preclude operation except when the saw is in engagement with the workpiece. 3,331,408, 7–18–67, Cl. 143—43.
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Condollos, Elie, to Societe Grenobloise d'Etudes et d'Applications Hydrauliques. Process and apparatus for the sorting of two or more materials. 3,295,677, 1–3–67, Cl. 209—136.
Condon, Eugene H., and T. A. Hadley, to Kimberly-Clark Corp. Process of manufacturing a web product using an adhesive plastisol. 3,307,992, 3–7–67, Cl. 156—181.
Condon, Harry F., to Owens-Illinois Glass Co. Pipe coupling for joining pipe sections of varying size. 3,298,698, 1–17–67, Cl. 277—101.
Condon, John R., J. J. Brezinski, and H. M. Rife, to Union Carbide Corp. Aqueous emulsions of vinylacetate-2-ethyl hexyl acrylate-vinyl sulfonic acid terpolymers, and method of preparation. 3,318,830, 5–9–67, Cl. 260—29.6.
Condon, Parrick F., and F. M. Gray, to The English Electric Co. Ltd. Variable Q transducer. 3,316,516, 4–25–67, Cl. 336—132.
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Cone Muffler Development Co., Ltd.: *See*—
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Cone, William H. Combination vehicle motor and electrical power unit. 3,317,765, 5–2–67, Cl. 310—74.
Cones, Van B., to United States of America, Navy. Direct measurement probe for radio frequency energy. 3,296,527, 1–3–67, Cl. 324—72.5.
Cones, Van B., and K. Parker, to United States of America, Navy. Radio frequency interference suppression circuit for frequencies in excess of 100 megacycles. 3,327,132, 6–20–67, Cl. 307—88.5.
Conescu, Sidney. Folding box construction. 3,314,589, 4–18–67, Cl. 229—31.
Conescu, Sidney. Box construction. 3,317,115, 5–2–67, Cl. 229—33.
Coney, Charles H., to Eastman Kodak Co. Multicolor coating process and coated article. 3,355,312, 11–28–67, Cl. 117—41.
Coney, Charles H., and W. E. Draper, to Eastman Kodak Co. Polyvinyl acetate or polyacrylate containing 3-hydroxy-2, 2,4-trimethylpentyl isobutyrate as coalescing agent. 3,312,652, 4–4–67, Cl. 260—29.6.
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Schurman, Peter T., and Confer. 3,339,781.
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Reahard, Daniel F., and Cowles. 3,323,256.
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Martin, Clyde G. 3,356,069.
Martin, Clyde G. 3,356,070.
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Congdon, George L., L. L. Peiffer, and L. F. Perry, to Bergstrom Mfg. Co. Magnetic drive or coupling. 3,333,127, 7–25–67, Cl. 310—105.
Congelli, Henry C., and G. W. Hays, to American Machine & Foundry Co. Respotting mechanism. 3,315,961, 4–25–67, Cl. 273—43.
Congelli, Henry C., and G. W. Hays, to American Machine & Foundry Co. Automated fryer. 3,347,152, 10–17–67, Cl. 99—334.
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Daneski, Victor J., Wetterau, and Powell. 3,343,975.
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Petry, Robert K., and Jecker. 3,339,001.
Powell, William H., and Friedman. 3,359,352.
Congregation of the Sisters of Charity of the Incarnate Word, Inc., The: *See*—
Robinson, Elbert W. 3,313,295.
Conhagen, Alfred. Deep well pump. 3,336,875, 8–22–67, Cl. 103—88.
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Conix, André J., to Gevaert Photo-Producten N.V. Thermoplastic linear polysulfonates from di(hydroyphenyl) valeric acid. 3,297,636, 1–10–67, Cl. 260—49.
Conix, Andre J., to Gevaert Photo-Producten N.V. Production of linear aromatic polyesters. 3,317,464, 5–2–67, Cl. 260—47.
Conix, Andre J., to Gevaert Photo-Producten N.V. Linear aromatic polyesters. 3,351,611, 11–7–67, Cl. 260—47.
Conix, André J., to Gevaert Photo-Producten N.V. Production of linear aromatic polyesters. 3,351,624, 11–7–67, Cl. 260—47.
Conklin, David A., and J. Gillin, to Merck & Co., Inc. Ion exchange process for removing glutamic acid from a fermentation broth. 3,325,539, 6–13–67, Cl. 260—527.
Conklin, Donald T.: *See*—
Pucino, Vito W. 3,320,668.
Conklin, George E., and J. J. Heigl, to Esso Research and Engineering Co. Haze measuring apparatus with solid block with cavity. 3,358,148, 12–12–67, Cl. 250—218.
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Conklin, James H., and C. G. Miller, Jr., to E. I. du Pont de Nemours and Co. Pneumatically operable diaphragm pumps. 3,338,171, 8–29–67, Cl. 103—152.
Conklin, Robert M., to Brunswick Corp. Ball retarder. 3,304,088, 2–14–67, Cl. 273—47.
Conklin, Robert M., A. M. Rockwood, R. Torresen, A. J. Gretzky, and M. E. Brown, deceased (by B. E. Brown, administrator), to Brunswick Corp. Mechanism for setting bowling pins at selected positions. 3,314,678, 4–18–67, Cl. 273—43.
Conkling, William C., to Wallace & Tierman Inc. Magnetic coupling for a flowmeter. 3,315,523, 4–25–67, Cl. 73—209.
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Sieloff, Kenneth A. 3,330,573.
Conlee, George D., to Lovell Mfg. Co. Wringer. 3,353,382, 11–21–67, Cl. 68—257.
Conley, Austin B., and W. H. Morgan, Jr., to Sylvania Electric Products, Inc. Photographic lamp adapter. 3,309,512, 3–14–67, Cl. 240—1.3.
Conley, Daniel J.: *See*—
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Raab, Harry F., Jr., Galper, Jones, Conley, and Hannum. 3,351,532.
Conley, James B., to E. I. du Pont de Nemours and Co. Improve process coagulating chloroprene polymers from a latex. 3,311,601, 3–28–67, Cl. 260—92.3.
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Conlisk, John R., to Atlas Chemical Industries, Inc. Color comparing device. 3,347,132, 10–17–67, Cl. 88—14.
Conlisk, John R., to Atlas Chemical Industries, Inc. Activated carbon compositions. 3,352,788, 11–14–67, Cl. 252—161.
Conlon, Edward R., to Associated Spring Corp. Spring clutch having axial actuator means. 3,302,762, 2–7–67, Cl. 192—81.
Conlon, Edward R., to Associated Spring Corp. Spring clutch. 3,307,668, 3–7–67, Cl. 192—96.
Conlon, Edward R., to Associated Spring Corp. Torque limiting spring clutch. 3,335,835, 8–15–67, Cl. 192—81.
Conlon, Willard S. Revolving table capable of being dismantled. 3,347,369, 10–17–67, Cl. 209—124.
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Conn, Mervin E., to Esso Research and Engineering Co. Stable fluid emulsions of asphalt and other oleoresinous materials and preparation thereof. 3,350,321, 10–31–67, Cl. 252—311.5.
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Connally, Carl, Jr., to Mobil Oil Corp. Method of improving injectivity of input wells in waterflood process. 3,303,878, 2–14–67, Cl. 166—9.
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Cook, Ralph H., and J. S. Ferguson, to S & C Electric Co. Electromechanical current sensing apparatus for use with high voltage electric power transmission conductors. 3,315,147, 4–18–67, Cl. 322—3.

Cook, Ralph W. Feed liquid inlet flow device. 3,299,937, 1–24–67, Cl. 159—2.

Cook, Reginald M.: *See*—
Ker Shaw, Stuart W., and Cook. 3,322,534.

Cook, Ridon R., and J. S. Miller, to Northrop Corp. Method of making a metal printed circuit board. 3,334,395, 8–8–67, Cl. 29—625.

Cook, Robert J.: *See*—
Pedersen, Mathias, and Cook. 3,329,111.
Pedersen, Mathias, and Cook. 3,343,508.

Cook, Robert W. Folding-shelf. 3,295,471, 1–3–67, Cl. 108—111.

Cook, Shirl E., to Ethyl Corp. Stabilized tetraalkyllead compounds. 3,312,726, 4–4–67, Cl. 260—437.

Cook, Shirl E., and W. H. Thomas, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,340,284, 9–5–67, Cl. 260—437.

Cook Testing Co.: *See*—
Reardon, Daniel R. 3,358,767.

Cook, Thomas L. Vise grip pliers. 3,354,759, 11–28–67, Cl. 81—379.

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Cook, Clyde W. 3,306,315.

Cook, Walter I.: *See*—
Nazareth, Alfred, Jr., and Cook. 3,317,758.

Cook, Wendell S., to The Firestone Tire & Rubber Co. 7-nitroso imidozolidine thiones as stabilizers for diene elastomers and their vulcanizates. 3,311,588, 3–28–67, Cl. 260—45.8.

Cook, Wendell S., to The Firestone Tire & Rubber Co. Process for coagulating butadiene polymers in the presence of an imidazolidine-15-thione stabilizer. 3,330,800, 7–11–67, Cl. 260—45.8.

Cook, Wendell S., to The Firestone Tire & Rubber Co. Stabilized cis 1,4 polybutadiene. 3,355,419, 11–28–67, Cl. 260—45.9.

Cook, Wendell S., to The Firestone Tire & Rubber Co. Cis 1,4-polybutadiene stabilized with a combination. 3,355,421, 11–28–67, Cl. 260—45.85.

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Cooke, Albert E., to Trip-Lite Ltd. Stop means for textile machines. 3,321,755, 5–23–67, Cl. 340—419.

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Baermann, Walter P., Cooke, and Peterson. 3,301,394.

Cooke, Billy J., and J. F. McCoy, to Clark Equipment Co. Swinging door construction. 3,331,159, 7–18–67, Cl. 49—371.

Cooke, Charles S., to Siliconix Inc. Integrated circuit lead positioner. 3,321,825, 5–30–67, Cl. 29—203.

Cooke, Charles S., to Siliconix Inc. Ink spot marking device. 3,332,394, 7–25–67, Cl. 118—263.

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Cooke, Conrad R. Apparatus for detecting and indicating the extent of relative movement. 3,351,768, 11–7–67, Cl. 250—237.

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Lancaster, Jesse F. 3,360,747.

Cooke, Joseph A.: *See*—
Walker, William B., Harkin, and Cooke. 3,298,100.

Cooke, Nelson M., and P. H. Hall, to Cooke Engineering Co. Disposable microtitration plate. 3,356,462, 12–5–67, Cl. 23—292.

Cooke, Ruth M.: *See*—
Cooke, Ted E. and R. M. 3,345,036.

Cooke, Ted E.; deceased by R. M. Cooke, executrix, to O. F. Jurgens, Staple extractor. 3,345,036, 10–3–67, Cl. 254—28.

Cooke, William A., 50% to W. G. Finch. Radially broadcasting speaker system. 3,350,514, 10–31–67, Cl. 179—115.5.

Cooke, William E., D. E. Bury, and P. Smits, to Aluminium Laboratories Ltd. Continuous anodizing process and apparatus. 3,359,189, 12–19–67, Cl. 204—28.

Cooke, William E., and N. O. Helwigh, to Aluminium Laboratories Ltd. One-side anodizing of aluminum sheet. 3,359,190, 12–19–67, Cl. 204—28.

Cookerly, Jack C., and G. R. Hall. Electrical instrument in which string serves as its own transducer. 3,297,813, 1–10–67, Cl. 84—1.16.

Cookerly, Jack C., and G. R. Hall. Pressure responsive volume control for electrical instruments. 3,318,991, 5–9–67, Cl. 84—1.1.

Cookerly, Jack C., and G. R. Hall. Electrical stringed instrument. 3,325,579, 6–13–67, Cl. 84—1.16.

Cooke-Yarborough, Edmund H., to Bell Telephone Laboratories Inc. Stabilized dual-channel pulse amplifiers with transient response compensation. 3,360,739, 12–26–67, Cl. 330—124.

Cooksey, Frank W. Motor driven shaving means individually mounted on the user's fingers. 3,314,146, 4–18–67, Cl. 30—43.6.

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Cooksley, Ralph D., to R. D. Cooksley Mfg. Co. Valves and valve structure. 3,306,570, 2–28–67, Cl. 251—30.

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Cookson, William. 3,338,460.
Cookson, William. 3,338,461.

Cookson, William, to Cookson Sheet Metal Developments Ltd. Containers. 3,338,460, 8–29–67, Cl. 220—48.

Cookson, William, to Cookson Sheet Metal Developments Ltd. Containers. 3,338,461, 8–29–67, Cl. 220—48.

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Cooley, Austin G., to Litton Systems, Inc. Photofacsimile recorder. 3,343,173, 9–19–67, Cl. 346—24.

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Cooley, George, B. Ellis, and V. Petrow, to The British Drug Houses Ltd. Steroids of the Δ^{14}-pregnane series. 3,328,433, 6–27–67, Cl. 260—397.4.

Cooley, Gerald J., J. J. Gehringer, and A. J. Karalis, to United States of America, Atomic Energy Commission. Electrically heated cryogenic liquid vaporizing apparatus. 3,346,718, 10–10–67, Cl. 219—275.

Cooley, Gordon A., and P. Kaye, to The Deniston Co. Nail-feeding mechanism. 3,295,719, 1–3–67, Cl. 221—277.

Cooley, Gordon A., and P. Kaye, to The Deniston Co. Nail feeding apparatus and method. 3,323,155, 6–6–67, Cl. 10—155.

Cooley, Leigh W.: *See*—
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Cooley, Leigh W., to E. I. du Pont de Nemours and Co. Textile lubricant. 3,341,452, 9–12–67, Cl. 252—8.9.

Cooley, Lester M., to Seilon, Inc. Multiple planter frames. 3,322,438, 5–30–67, Cl. 280—412.

Cooley, Robert A., to Chromalloy Corp. Propellant compositions. 3,352,727, 11–14–67, Cl. 149—19.

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Andersen, Robert A., and Cooley. 3,296,613.

Cooley, Warren K., and R. T. Mease, to Caled Products Co., Inc. Composition for treating used dry cleaning solvents. 3,360,474, 12–26–67, Cl. 252—259.5.

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Cools, Johannus J., to Controls Co. of America. Pressure switch and electrical switch therefor. 3,352,983, 11–14–67, Cl. 200—83.

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Coombs, William F., Jr., and R. J. Meltzer, to Bausch & Lomb Inc. Applanation tonometer. 3,338,090, 8–29–67, Cl. 73—80.

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Coon, James A. Shoe shining device. 3,327,342, 6–27–67, Cl. 15—265.

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Coons, Uzal E., and H. D. Bredehorn, to Wm. Wrigley, Jr., Co. Pellet coating apparatus and dust cover system therefor. 3,302,608, 2–7–67, Cl. 118—19.

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Cooper, Albert C., and F. Irving, to Imperial Chemical Industries, Ltd. Anthrapyridone pigments containing a fused quinoline group. 3,324,132, 6–6–67, Cl. 260—278.

Cooper, Albert S., Jr., A. L. Murphy, and W. G. Sloan, to United States of America, Agriculture. Heat setting fibrous cotton esters. 3,356,446, 12–5–67. Cl. 8—131.

Cooper, Arley E. Wheel blocking system. 3,321,046, 5–23–67, Cl. 188—4.

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Cooper, Brian, to Firth Cleveland Ltd. Hand-held electric hair dryer. 3,348,020, 10–17–67, Cl. 219—370.

Cooper, Daniel W., and J. R. Mitchell, to G. Q. Parachute Co. Ltd. Parachutes. 3,325,125, 6–13–67, Cl. 244—138.

Cooper, David: *See*—
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Cooper, David, to General Electric Co. Semiconductor timing networks. 3,334,243, 8–1–67, Cl. 307—88.5.

Cooper, David, E. P. Priebe, and R. A. Zeccola, to General Electric Co. Speed detection and control systems incorporating a DC chopper circuit to provide pulses of a constant energy content. 3,335,349, 8–8–67, Cl. 318—318.

Cooper, David J., and T. N. Gibson, to The Procter & Gamble Co. Manufacture of perbenzoic acids. 3,321,512, 5–23–67, Cl. 260—502.

Cooper, Delbert J., to Phillips Petroleum Co. Fluid blending system. 3,298,383, 1–17–67, Cl. 137—3.

Cooper, Dexter P., Jr., to Polaroid Corp. Nonuniformly illuminated comparison photometer. 3,323,430, 6–6–67, Cl. 95—10.

Cooper, Dexter P., Jr., and V. K. Eloranta, to Polaroid Corp. Flash apparatus. 3,307,461, 3–7–67, Cl. 95—11.

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Cooper, Donald H., J. D. Edick, A. J. Humphrey, and C. S. Reasby, to United States of America, Army. Self priming, direct current pump-motor. 3,316,849, 5–2–67, Cl. 103—113.

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Cooper, Frederick J., to The National Cash Register Co. Record media handling device. 3,295,779, 1–3–67, Cl. 242—55.12.

Cooper, Garvin W., to Continental Oil Co. Removal of underwater support structures. 3,336,759, 8–22–67, Cl. 61—46.5.

Cooper, George D. Reflector for reflecting color corrected light and heat. 3,322,946, 5–30–67, Cl. 240—41.35.

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Cooper, Gilbert N., to Gayley Wycombe Corp. Take-up apparatus. 3,341,148, 9–12–67, Cl. 242—75.5.

Cooper, Graham B., to The Metal Box Co. Ltd. Apparatus for closing containers. 3,332,201, 7–25–67, Cl. 53—88.

Cooper, Harry C., and K. Okada, to The A.P.V. Co. Ltd. Apparatus for the heat treatment of fluids. 3,314,471, 4–18–67, Cl. 165—2.

Cooper, Henry E., III, to The Terrell Corp. Hot melt adhesive applicator and method of melting. 3,325,156, 6–13–67, Cl. 263—11.

Cooper, Irving B., Jr., to Veeder Industries Inc. Secret coded card system. 3,312,372, 4–4–67, Cl. 222—2.

Cooper, Jacob: *See*—
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Cooper, James E., and K. A. Kvenvolden, to Mobil Oil Corp. Method for prospecting for petroleum. 3,305,317, 2–21–67, Cl. 23—230.

Cooper, James N., ⅓ to H. Hurvitz. Teaching machine. 3,299,538, 1–24–67, Cl. 35—35.

Cooper, James N., ⅓ to H. Hurvitz. Language teacher. 3,323,230, 6–6–67, Cl. 35—35.

Cooper, James N., ⅓ to H. Hurvitz. Editing system utilizing recirculation means. 3,360,613, 12–26–67, Cl. 179—100.2.

Cooper, John M.: *See*—
Bass, Patrick, and Cooper. 3,347,982.

Cooper, Jonathan C., and J. F. Villiers-Fisher, to Pittsburgh Activated Carbon Co. Lean oil contact with the regenerative medium for adsorbers. 3,324,669, 6–13–67, Cl. 62—18.

Cooper, Joseph E.: *See*—
Duncan, James E., and Cooper. 3,296,005.

Cooper, Julie. Automobile ash tray. 3,351,070, 11–7–67, Cl. 131—236.

Cooper, Kenneth G., and H. S. B. Marshall, to Midland Silicones Ltd. Treatment of porous and fibrous material to impart water repellency thereto. 3,303,048, 2–7–67, Cl. 117—135.5.

Cooper, Lawrence, and R. W. Kern, to International Business Machines Corp. Optical system utilizing fraunhofer diffraction patterns for specimen identification purposes. 3,305,834, 2–21–67, Cl. 340—146.3.

Cooper, Lawrence E., to Texas Instruments Inc. Multiple circuit breaker. 3,307,002, 2–28–67, Cl. 200—116.

Cooper, Lawrence E., and E. Kadlsevskis, to Texas Instruments Inc. Methods of making condition responsive devices. 3,302,269, 2–7–67, Cl. 29—155.5.

Cooper, Lester E. Spare tire mounting rack. 3,330,455, 7–11–67, Cl. 224—42.06.

Cooper McDougall & Robertson Ltd.: *See*—
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Cooper, Melvin D., and J. C. Gorman, ¼ to C. A. Brizius, and ¼ to R. J. Victor. Method for producing contact lens. 3,300,909, 1–31–67, Cl. 51—284.

Cooper, Merle D., and H. C. Olson, to Butler Mfg. Co. Corrugated panel. 3,308,596, 3–14–67, Cl. 52—650.

Cooper, Merle D., Jr., and K. M. Blom, to Butler Mfg. Co. Insulated light transmitting panel improvement. 3,358,408, 12–19–67, Cl. 52—202.

Cooper, Noel R., W. C. Hurley, D. E. Larkin, J. O. Mavis, and J. W. Jones, to Pet Milk Co. Method of preparing fruit pies. 3,300,316, 1–24–67, Cl. 99—92.

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Cooper, Paul W.: *See*—
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Cooper, Ralph F.: *See*—
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Cooper-Resenner Corp., The: *See*—
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Cooper, Robert D., to Frontier Chemical Co., Division of Vulcan Materials Co. Process for treating pentachlorophenol. 3,322,839, 5–30–67, Cl. 260—623.

Cooper, Robert K., to The Hale Co. Valve handles. 3,355,141, 11–28–7, Cl. 251—101.

Cooper, Robert N., to American Photocopy Equipment Co. Developer mix for electrostatic printing. 3,345,294, 10–3–67, Cl. 252—62.1.

Cooper, Robert S., to Stauffer Chemical Co. Anti-static coated textile fiber. 3,300,337, 1–24–67, Cl. 117—139.

Cooper, Robert S., to Stauffer Chemical Co. Copolymers of vinyl diphenylphosphine oxide. 3,350,477, 10–31–67, Cl. 260—870.

Cooper, Robert S., and A. D. Urfer, to Stauffer Chemical Co. Tableted detergent and detergent-bleach compositions comprising alkyl orthophosphate salts. 3,329,615, 7–4–67, Cl. 252—99.

Cooper Roller Bearing Co., Ltd.: *See*—
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Cooper, Ronald H., to The Dow Chemical Co. Clay structures. 3,307,959, 3–7–67, Cl. 106—67.

Cooper, Roy L. Seed potato cutting machine. 3,353,576, 11–21–67, Cl. 146—78.

Cooper, Samuel D.: *See*—
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Cooper, Stanley: *See*—
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Cooper, Stanley, to Rolls-Royce Ltd. Bearing assembly. 3,332,726, 7–25–67, Cl. 308—9.

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Cooper, Thomas G., and R. E. Linde, to Crown Zellerbach Corp. Creped sheet materials and the process of producing the same. 3,300,368, 1–24–67, Cl. 161—128.

Cooper, Wilbur E., to National Steel Corp. Apparatus for conveying fluid toward a region of high temperature. 3,358,985, 12–19–67, Cl. 266—41.

Cooper, Wilfrid, to Dunlop Rubber Co. Ltd. Recovery of isoprene polymers. 3,328,377, 6–27–67, Cl. 260—94.3.

Cooper, William C., to The Budd Co. Article inverting apparatus. 3,302,768, 2–7–67, Cl. 198—33.

Cooper, William M., to Champion Mfg. Co. Mobile concrete floor sawing machine having pivotally adjustable frame sections. 3,357,745, 12–12–67, Cl. 299—39.

Cooper, William T. Sun-Visor attachment. 3,317,225, 5–2–67, Cl. 287—14.

Cooperman, Harris L. Precise positioning device. 3,319,528, 5–16–67, Cl. 90—58.

Cooperman, Michael, to Radio Corp. of America. Tunnel diode switching circuit triggerable by single polarity input. 3,319,085, 5–9–67, Cl. 307—88.5.

Cooper's Inc.: *See*—
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Coopers Mechanical Joint Ltd.: *See*—
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Cooprider, Rex C., to Diamond International Corp. Liquid dispenser. 3,319,894, 5–16–67, Cl. 239—490.

Cooprider, Rex C., to Calmar, Inc. Liquid dispenser. 3,333,549, 8–1–67, Cl. 103—158.

Cooprider, Rex C., to Calmar, Inc. Liquid dispenser. 3,359,917, 12–26–67, Cl. 103—188.

Coor, Thomas, to Princeton Applied Research Corp. Direct reading resistance thermometer. 3,339,414, 9–5–67, Cl. 73—362.

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McConnell, Richard L., and Coover. 3,298,998.

Coover, Harry W., Jr., M. A. McCall, and J. E. Guillet, to Eastman Kodak Co. Thermally modified polyethylene and other polymers and process for preparing the same. 3,299,181, 1–17–67, Cl. 260—897.

Coover, Harry W., Jr., and M. A. McCall, to Eastman Kodak Company. Polymerization process employing catalyst containing metal compounds. 3,309,346, 3–14–67, Cl. 260—93.7.

Coover, Harry W., Jr., and M. A. McCall, to Eastman Kodak Co. Polymerization process using catalyst containing substituted ethers 3,309,347 3–14–67, Cl. 260—93.7.

Coover, Harry W., Jr., and D. J. Shields, to Eastman Kodak Co. Crystallizable vinylsulfonic ester polymers. 3,312,670, 4–4–67, Cl. 260—79.3.

Coover, Harry W., Jr., and F. B. Joyner, to Uniroyal, Inc. Dyeable polypropylene fibers containing polymers of vinyl pyridines. 3,315,014, 4–18–67, Cl. 260—895.

Coover, Harry W., Jr., and M. A. McCall, to Eastman Kodak Co. Organo aluminum halide catalysts and polymerization processes employing same. 3,340,244, 9–5–67, Cl. 260—93.7.

Coover, Harry W., Jr., and T. H. Wicker, Jr., to Eastman Kodak Co. Stabilized cyanoacrylate adhesives. 3,355,482, 11–28–67, Cl. 260—464.

Cope, Andrew P., R. Meagher, and D. Zafirogulu, to E. I. du Pont de Nemours and Co. Fowarding jet. 3,302,237, 2–7–67, Cl. 18—1.

Cope, Geoffrey W., to Symington Wayne Corp. Draft rigging. Re. 26,143, 1–24–67, Cl. 213—72.

Cope, Geoffrey W., to Symington Wayne Corp. Self-aligning brake head assembly. 3,306,400, 2–28–67, Cl. 188—220.1.

Cope, Geoffrey W., to Symington Wayne Corp. Manually controlled coupler positioning device. 3,349,926, 10–31–67, Cl. 213—16.

Cope, Gerald R.: *See*—
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Cope, Gerald R., C. R. Hauth, and J. Hyde, ½ to Harbison-Walker Refractories Co., and ½ to Koppers Co., Inc. Tundish ladles. 3,333,746, 8–1–67, Cl. 222—566.

Cope, Glenn W. Fence structure and prop element for fence wires. 3,350,066, 10–31–67, Cl. 256—32.

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Angier, James F., and Cope. 3,349,233.

Cope, Lawrence H., to United Kingdom Atomic Energy Authority. Stainless steel alloys for nuclear reactor fuel elements. 3,301,668, 1–31–67, Cl. 75—128.

Cope, Lawrence H., and R. J. Warmer, to United Kingdom Atomic Energy Authority. Manufacture of cermet bodies. 3,336,656, 8–22–67, Cl. 29—473.3.

Cope, Louis T., to Olin Mathieson Chemical Corp. Process for transferring liquefied gases. 3,350,890, 11–7–67, Cl. 62—45.

Cope, Richard P., Jr., to Cowles Chemical Co. Electroplating electrolytes. 3,306,831, 2–28–67, Cl. 204—43.

Copeland, Charles A., ½ to E. R. Mims. Fire escape device. 3,306,582, 2–28–67, Cl. 254—154.

Copeland, Charles V., to Wayne Home Equipment Co., Inc. Oil drip sump and vaporizer for oil burners. 3,314,607, 4–18–67, Cl. 239—121.

Copeland, Clinton R. Belt grinding machine. 3,330,076, 7–11–67, Cl. 51—147.

Copeland, George G., and J. E. Hanway, Jr., to Container Corp. of America. Fluidized bed oxidation of waste liquors resulting from the digestion of cellulosic materials for paper making. 3,309,262, 3–14–67, Cl. 162—30.

Copeland, Gertrude P.: *See*—
De Lany, Beatrice P., and Copeland. 3,304,456.

Copeland, Herbert R.: *See*—
Kyame, George J., and Copeland. 3,295,307.

Copeland, Jesse J., and J. H. Coe, to Hitchcock Transportation Co. Tire demounting machine. 3,354,928, 11–28–67, Cl. 157—1.2.

Copeland, John E., and F. A. Matthews, to Lockheed Aircraft Corp. Retractable undercarriage for aircraft. 3,323,761, 6–6–67, Cl. 244—102.

Copeland, John R., W. J. Robertson, and J. C. Gilfert, to Ohio State University Research Foundation. Combined antenna and tunnel diode converter circuit. 3,296,536, 1–3–67, Cl. 325—449.

Copeland, John R., and W. J. Robertson, to The Ohio State University Research Foundation. Integrated Lobe switching antenna. 3,349,404, 10–24–67, Cl. 343—120.

Copeland, Lynn L.: *See*—
Buczala, George S., Rosengarten, and Copeland. 3,350,050.

Copeland, Lynn L. Fluid ventilated suit. 3,348,236, 10–24–67, Cl. 2—2.

Copeland, Paul L.: *See*—
De Lany, Beatrice P., and Copeland. 3,304,456.

Copeland, Richard S., to Sackner Products, Inc. Decorative reticulated foam-fibrous pad and method of making the same. 3,354,020, 11–21–67, Cl. 161—53.

Copeland, Robert P., to Geo. P. Reintjes Co., Inc. Open hearth furnace roof. 3,326,151, 6–20–67, Cl. 110—99.

Copeland, Wayne E., to Aetna Chemical Corp. Pump. 3,304,875, 2–21–67, Cl. 103—87.

Copeland, William M., S. V. Horecky, and T. H. Hayes, to Sunbeam Corp. Hair dryer. 3,348,317, 10–24–67, Cl. 34—99.

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Copland, James G., to General Electric Co. Electromagnetic brake. 3,322,242, 5–30–67, Cl. 188—171.

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Coplin, John F., to Rolls-Royce Ltd. Gas turbine engine. 3,332,241, 7–25–67, Cl. 60—226.

Coplin, John F., P. A. Taylor, J. A. Petrie, and K. E. G. Bracey, to Rolls-Royce Ltd. Helicopter rotor. 3,299,961, 1–24–67, Cl. 170—135.4.

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Coppick, Sydney, to Scott Paper Co. Reinforced absorbent pad and method of making. 3,314,425, 4–18–67, Cl. 128—156.

Coppick, Sydney, and R. Brown, to Scott Paper Co. Pulp processing method for mixed cellulosic materials. 3,301,745, 1–31–67, Cl. 162—55.

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Coppo, Alessandro. Straight bar knitting machine. 3,316,739, 5–2–67, Cl. 66—71.

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Corbin, George T., Jr. Method of making metallic-lined pressure vessel. 3,312,575, 4–4–67, Cl. 156—151.

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Corbin, Thomas F., Jr., and K. D. Dodson, to American Enka Corp. Polyamides containing butyrolactone. 3,328,341, 6–27–67, Cl. 260—45.8.

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Corcoran, Desmond P. Electronic training aids. 3,295,226, 1–3–67, Cl. 35—19.

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Cordis, Nat, deceased, by G. S. Cordis, executor; ½ to C. F. Jensen, and ⅛ to G. T. Doble. Storing and dispensing apparatus for wet wipe sheets. 3,310,353, 3–21–67, Cl. 312—39.

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Corey, Philip D., to General Electric Co. Control arrangement for inversion system. 3,321,694, 5–23–67, Cl. 321—18.

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Corey, Philip D., L. H. Walker, and A. L. Wellford, to General Electric Co. Master-slave inverter voltage regulator. 3,354,376, 11–21–67, Cl. 321—5.

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Miles, Russel T., Anderson, and Reddie. 3,344,566.

Cork, Spencer M., G. K. Jensen, and J. E. McGeogh, to United States of America, Navy. Electronic commutator having automatic self-start and reset insuring means. 3,329,903, 7–4–67, Cl. 328—48.

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Corman, Julian, to Grain Processing Corp. Process of purifying a transglucosidase-and-amyloglucosidase-containing fungal enzyme preparation. 3,335,066, 8–8–67, Cl. 195—31.

Corman, Julian, to Grain Processing Corp. Process of purifying a transglucosidase and glucomylase-containing fungal enzyme preparation. 3,345,268, 10–3–67, Cl. 195—31.

Cormany, Charles L., and D. A. Reich, to Pittsburgh Plate Glass Co. Stabilized methyl chloroform compositions with improved evaporation characteristics. 3,326,989, 6–20–67, Cl. 260—652.5.

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Cornelius, Edward B., J. E. McEvoy, and G. A. Mills, to Air Products and Chemicals, Inc. Method of making cracking catalyst containing a crystalline alumino-silicate. 3,337,474, 8–22–67, Cl. 252—455.

Cornelius, Edward B., L. A. Cosgrove, and G. A. Mills, to Air Products and Chemicals, Inc. Alumina particles and method of preparation. 3,353,910, 11–21–67, Cl. 23—141.

Cornelius, George W. Apparatus for reducing air pollutants emitted from internal combustion engines. 3,306,033, 2–28–67, Cl. 60—30.

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Cornelius, Richard T., to The Cornelius Co. Bottle carrier. 3,317,081, 5–2–67, Cl. 220—102.

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Cornelius, Richard T., to The Cornelius Co. Cabinet door construction. 3,327,427, 6–27–67, Cl. 49—486.

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Cornelius, Richard T., to The Cornelius Co. Refrigerated beverage dispensing machine. 3,359,754, 12–26–67, Cl. 62—389.

Cornelius, Richard T., to The Cornelius Co. Post-mix valve. 3,359,996, 12–26–67, Cl. 137—170.1.

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Cornell, Kent M., J. H. Gard, and C. L. McAfee, to Kaiser Aerospace & Electronics Corp. Contact analog. 3,331,069, 7–11–67, Cl. 343—11.

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Cornell, William C. Flow responsive indicator. 3,330,248, 7–11–67, Cl. 116—70.

Cornell, William C. Engine coolant filter element. 3,348,693, 10–24–67, Cl. 210—282.

Cornell, William D., to Brunswick Corp. Ball speed control mechanism. 3,300,212, 1–24–67, Cl. 273—49.

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Cornet, Andre. Pistons for engines with a high thermal load. 3,336,844, 8–22–67, Cl. 92—224.

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Corney, John V., and A. Isaacs, to Ferguson Radio Corp. Ltd. Frequency control system with phase conscious control interrupter. 3,311,841, 3–28–67, Cl. 331—14.

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Alper, Allen M., Doman, and McNally. 3,340,078.
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Herrmann, Eldar R. 3,330,892.
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Corte, Herbert, and O. Netz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the chloromethylation of aromatic compounds of high molecular weight. 3,297,648. 1–10–67, Cl. 260—73.
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Costes, Didier, to Commissariat a l'Energie Atomique. Handling apparatus for nuclear reactor refueling facility. 3,344,033. 9–26–67, Cl. 176—30.
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Cott, Norris E. Single-throw lever tool for joining flanged split-band elements. 3,341,178. 9–12–67. Cl. 254—79.
Cotta, Ezio D., and V. K. Eloranta, to Polaroid Corp. Photographic film assemblage for use in diffusion transfer. 3,314,791. 4–18–67. Cl. 96—76.
Cottell, Eric C. Rotating liquid whistle. 3,344,766. 10–3–67. Cl. 116—137.
Cotten, Robert L. Basement drain conduit. 3,344,569. 10–3–67. Cl. 52—287.
Cotter, Gerald S., and J. E. Huffmaster. Turbo-generator heater for oil and gas wells and pipe lines. 3,342,267. 9–19–67. Cl. 166—60.
Cotter, James L., to Hastings Aluminum Products, Inc. Eavestrough and hanger assemblies. 3,296,749. 1–10–67. Cl. 52—11.
Cotter, Richard W., to United States of America, Army. Continuity field test bridge circuit with diode-controlled visual indicator means. 3,345,565. 10–3–67. Cl. 324—51.
Cotter, Robert J.: *See*—
Kurkjy, Raymond P., Matzner, and Cotter. 3,312,659.
Kurkjy, Raymond P., Matzner, and Cotter. 3,312,660.
Kurkjy, Raymond P., Matzner, and Cotter. 3,312,661.
Kurkjy, Raymond P., Matzner, and Cotter. 3,312,662.
Cotter, Robert J., to Union Carbide Corp. Organic azidoformates and methods of preparing same. 3,324,148. 6–6–67. Cl. 260—349.
Cotter, Robert J., to Union Carbide Corp. Certain esters of azepine carboxylic acids and their preparation. 3,360,513. 12–26–67. Cl. 260—239.
Cottin, Camille, to Progil. Preparation of alkyl and dialkyl carbamyl halides. 3,320,308. 5–16–67. Cl. 260—544.
Cottingham, Robert W., to Cabot Corp. Process for polymerization. 3,332,927. 7–25–67. Cl. 260—93.7.
Cottis, Steve G.: *See*—
Rosenberg, Harold, and Cottis. 3,350,369.
Cottle, John E., to Phillips Petroleum Co. Production, separation, and recovery of isoprene. 3,321,542. 5–23–67. Cl. 260—680.
Cottle, John E., to Phillips Petroleum Co. Crystal purification method and apparatus therefor. 3,323,730. 6–6–67. Cl. 241—92.
Cottle, John E., to Phillips Petroleum Co. Fractional crystallization. 3,339,372. 9–5–67. Cl. 62—58.
Cotton, Curran D.: *See*—
Bergeson, Richard P., and Cotton. 3,300,869.
Cotton Enterprises, Inc.: *See*—
Cox, Donald J. 3,302,249.
Cotton, Eugene S., to United States of America, Army. Asymmetrical heat conductor. 3,331,432. 7–18–67. Cl. 165—14.
Cotton, Frederick R.: *See*—
Bush, G. Frederick, Cotton, and Cruchet. 3,350,536.
Cotton, John F.: *See*—
Lockie, Arthur M., and Cotton. 3,328,690.
Cotton, Joseph B., to Imperial Chemical Industries Ltd. Inhibiting corrosion of copper and copper-base alloys. 3,295,917. 1–3–67. Cl. 21—2.5.
Cotton, Joseph B., K. W. J. Bowen, and A. W. Ravenscroft, to Imperial Chemical Industries Ltd. Mercury cathode cell with noble metal-titanium anode as cover means. 3,318,792. 5–9–67. Cl. 204—219.
Cotton, Joseph H.: *See*—
Shaw, Leslie R., and Cotton. 3,358,320.
Cotton, Robert B. Aerial pick-up and delivery system. 3,351,325. 11–7–67. Cl. 258—1.4.
Cotton, William R. Slotted plastic well screen with backwash valve and method of installation. 3,358,781. 12–19–67. Cl. 175—314.
Cotton, William, Ltd.: *See*—
Starr, Ernest, and Blood. 3,320,773.
Starr, Ernest, and Brown. 3,323,332.
Cottrell Co., The: *See*—
Luehrs, Hans J. 3,332,346.
Luehrs, Hans J. 3,359,899.
Cottrell, George B., to North American Aviation, Inc. Ternary pulse width generation. 3,310,758. 3–21–67. Cl. 332—9.
Cottrell, James E.: *See*—
Costley, Vivian G., and Cottrell. 3,355,544.
Cottrell, Richard F., to Aerojet-General Corp. Quick-release closure for auxiliary port in rocket motor. 3,349,561. 10–31–67. Cl. 60—229.
Cottrez, Gérard, to La Telemecanique Electrique. Bistable device with memory. 3,350,652. 10–31–67. Cl. 328—190.
Coty, Vernon F., to Mobil Oil Corp. Growing microorganisms on volatile hydrocarbons. 3,326,770. 6–20–67. Cl. 195—3.
Couch, Bert J. Electric control system with means for adjusting potential of accidental ground. 3,339,113. 8–29–67. Cl. 317—18.
Couch, Billy A.: *See*—
McClure, Louis C., and Davis. 3,353,311.
Couch, George L., to General Electric Co. Metering device for controlling low rates of flow between regions of widely-different pressures. 3,343,340. 9–26–67. Cl. 55—189.
Couch, Harry J., and G. L. Kinkead, to General Motors Corp. Visor means. 3,343,867. 9–26–67. Cl. 296—97.
Coudray, Michel: *See*—
Lockett, George E., Coast, Coudray, Vitry, and Torlelll. 3,352,756
Coughenour, Donald J.: *See*—
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Coughlin, Charles P.: *See*—
Dion, Reginald R., Benenati, Morris, and Coughlin. 3,340,438.
Coughlin, Harry T., and J. A. Canale, to Cluett, Peabody & Co., Inc. Men's undergarment. 3,354,880. 11–28–67. Cl. 128—159.
Coulbert, Clifford D.: *See*—
Webb, James E. 3,353,359.
Couleur, John F., P. F. Gudenschwager, and W. A. Shelly, to General Electric Co. Data processing unit for providing selective memory addressing by external apparatus. 3,298,001. 1–10–67. Cl. 340—172.5.
Couleur, John F., P. F. Gudenschwager, and W. A. Shelly, to General Electric Co. Data processing unit for providing data shift under selective control of external apparatus. 3,308,442. 3–7–67. Cl. 340—172.5.
Couleur, John F., P. F. Gudenschwager, and W. A. Shelly, to General Electric Co. Data processing unit for providing serial or parallel data transfer under selective control of external apparatus. 3,308,443. 3–7–67. Cl. 340—172.5.
Couleur, John F., P. F. Gudenschwager, W. A. Shelly, and D. L. Bahrs, to General Electric Co. Data processing unit for selectively controlling access to memory by external apparatus. 3,310,785. 3–21–67. Cl. 340—712.5.
Coulman, Frank. Shrink gage. 3,304,616. 2–21–67. Cl. 33—170.
Coulombe, Lionel J.: *See*—
Rausch, Edward A., Jr., and Coulombe. 3,313,255.
Coulombe, Maurice, and Y. Bureau. Thermostatic mixing valve. 3,352,489. 11–14–67. Cl. 236—12.
Coulson, Dale M. Gas-liquid contact apparatus. 3,309,845. 3–21–67. Cl. 55—228.
Coulson, David F. Mounting bolster for containers. 3,331,333. 7–18–67. Cl. 105—366.
Coulson, Leonard W., J. Antos, and E. F. Schultze, to La Belle Industries, Inc. Portable projector. 3,316,806. 5–2–67. Cl. 88—28.
Coulson, Robert E., to Felt Products Mfg. Co. Sealing assembly. 3,353,832. 11–21–67. Cl. 277—171.
Coulson, Samuel H.: *See*—
Bannister, Eric, Biggs, Coulson, Greenwood, and Zapp. 3,342,789.
Coult, John H. Device for preserving the form of a shoe. 3,298,049. 1–17–67. Cl. 12—120.5.
Coulter, Albert L. Toggle valve. 3,338,550. 8–29–67. Cl. 251—263.
Coulter, David C.: *See*—
Campanella, Samuel J., and Coulter. 3,335,225.
Coulter Electronics, Inc.: *See*—
Coulter, Joseph R., Jr. 3,340,470.
Coulter, Joseph R., Jr. 3,340,471.
Coulter, Wallace H., Stegelman, Lee, and Moore. 3,331,950.
Hogg, Walter R. 3,299,354.
Hughes, Roy, and Hogg. 3,352,280.
Coulter, Harold K., P. M. Crase, and D. D. Errett, to Santa Barbara Research Center. Infrared detector testing system comprising scanning the detector surface with a point-source of radiation. 3,315,075. 4–18–67. Cl. 250—83.3.
Coulter, John B., Jr., to Chicago Pneumatic Tool Co. Rotary shock absorbing sub unit. 3,301,009. 1–31–67. Cl. 64—23.
Coulter, Joseph R., Jr., to Coulter Electronics, Inc. Flow-through sample apparatus for use with electrical particle study device. 3,340,470. 9–5–67. Cl. 324—71.
Coulter, Joseph R., Jr., to Coulter Electronics, Inc. Flow-through sample apparatus for use with electrical particle study device. 3,340,471. 9–5–67. Cl. 324—71.
Coulter, Stanley M., and L. J. Bachman, to Dravo Corp. Travelling grate machine with drive. 3,332,674. 7–25–67. Cl. 266—21.
Coulter, Wallace H., and A. Stegelman, to Coulter Electronics, Inc. Particle distribution plotting apparatus. 3,331,950. 7–18–67. Cl. 235—92.
Coulthard, Thomas: *See*—
Hogan, William J., and Coulthard. 3,305,104.
Council, Lemuel L.: *See*—
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Jain, Padam C., and Anand. 3,306,903.
Pugh, Hubert L. D. 3,344,636.
Councill, Edwin D.: *See*—
Amdahl, Gene M., Councill, Flaherty, and Zagursky. 3,328,765.
Councilman, Richard R., to Ling-Temco-Vought, Inc. Highly damped, balanced mounting for a plotter stylus. 3,316,642. 5–2–67. Cl. 33—18.
Councilman, Richard R., to Ling-Temco-Vought, Inc. Slide select and positioning device. 3,353,290. 11–21–67. Cl. 40—79.

Counihis, Anthony A. E.: *See*—
Mitchell, Reid L., Counihis, and Murphy. 3,312,685.
Counsell, Raymond E., to G. D. Searle & Co. Optionally 17α-alkylated 3-oxygenated 2α-dialkylaminomethyl-5α-androstan-17β-ols and esters thereof. 3,314,977. 4–18–67. Cl. 260—397.4.
Counter Current Operations G.m.b.H.: *See*—
Kittel, Walter. 3,346,566.
Country Engineering Inc.: *See*—
Helms, Thomas F. 3,318,143.
Helms, Thomas F. 3,323,351.
Counts, William E.: *See*—
Bruhl, Donald A., Jr., and Counts. 3,326,720.
Counts, William E., and W. T. Kelly, to Beckman Instruments, Inc. Cermet resistance element and material. 3,326,645. 6–20–67. Cl. 29—182.5.
County Commercial Cars Ltd.: *See*—
Tapp, Geoffrey E. E., and Davey. 3,301,572.
Coupar, Robert B. Golfer's arm bend restraining device. 3,339,926. 9–5–67. Cl. 273—183.
Čoupek, Jiří: *See*—
Lím, Drahoslav, Čoupek, and Kolínsky. 3,325,453.
Coupland, Keith, J. Pennington, and S. J. Branch, to The Distillers Co. Ltd. Cyclic keto esters and lubricants containing them. 3,313,732. 4–11–67. Cl. 252—57.
Cour, Thomas H., and W. L. Richmond, to Jefferson Chemical Co., Inc. Stabilization of polyoxyalkylene compounds. 3,325,547. 6–13–67. Cl. 260—611.5.
Cour, Thomas H., and H. G. Muhlbauer, to Jefferson Chemical Co., Inc. Purification of diamine. 3,341,600. 9–12–67. Cl. 260—584.
Courier-Citizen Co.: *See*—
Seekins, John W. 3,359,656.
Courneya, Calice G., and J. W. Todd, to Minnesota Mining and Mfg. Co. Sectional spool linear valve. 3,347,269. 10–17–67. Cl. 137—625.48.
Cours, Donald V., J. K. McGee, and H. L. Lafferty, to Gray Tool Co. Pipe lining method. 3,359,624. 12–26–67. Cl. 29—421.
Coursey, Ralph W. High speed high capacity mechanical parking system. 3,301,413. 1–31–67. Cl. 214—16.1.
Court, Otto: *See*—
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Court, Patrick R. J., and A. M. Reiter, to International Telemeter Corp. Frequency compensating system. 3,299,359. 1–17–67. Cl. 325—431.
Court, Patrick R. J., and P. A. C. Segrave, to International Telemeter Corp. Television receiver of frequency stabilizing system. 3,305,632. 2–21–67. Cl. 178—5.8.
Court, Wilbur M., and W. G. Ludwig, to Bartelt Engineering Co., Inc. Machine and method for packaging articles in envelope-type packages. 3,330,090. 7–11–67. Cl. 53—28.
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Courtan, Bernard, to Compagnie Generale de Telegraphie Sans Fil. Direct viewing storage tube having inclined flood gun and virtual cathode. 3,302,054. 1–31–67. Cl. 315—12.
Courtaulds Ltd.: *See*—
Baker, Bernard S. 3,309,541.
Betts, Max W., and Spicer. 3,332,748.
Boiston, David A., and Pratt. 3,331,661.
Buckley, Gordon S., and Robb. 3,340,585.
Dixon, Olaf G., and Knibbs. 3,349,694.
Dziuba, Wladyslaw A., and Palmer. 3,341,451.
Hartley, Kenneth A., Wilson, and Hughes. 3,338,085.
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Mahomed, Ramon S. 3,305,377.
Mytum, Ernest. 3,340,340.
Randall, Alan A. 3,331,814.
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Courtland Laboratories: *See*—
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 3,337,031.
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 3,360,374.
Barr, Courtland H., Sr., C. H. Barr, Jr., J. W. Barr, and Lucas. 3,326,206.
Courtney, William J.: *See*—
Lavelle, Joseph E., Courtney, and Denholm. 3,347,604.
Courtney-Pratt, Jeofry S., to National Research Development Corp. Cathode ray tube with composite multiple glass fibre face. 3,321,658. 5–23–67. Cl. 313—92.
Courtot, Louis B., to Textron Inc. Fluid pressure regulator valve. 3,339,581. 9–5–67. Cl. 137—505.46.
Courtright, Milton A. Plant starting device. 3,298,133. 1–17–67. Cl. 47—1.2.
Cousens, Richard H., D. W. J. Osmond, and D. H. Solomon, to Imperial Chemical Industries Ltd. Dispersion of a vinyl polymer in an organic liquid containing a reactive plasticizer. 3,298,990. 1–17–67. Cl. 260—30.4.
Cousins, John R., and F. C. Robertson, to The General Electric Co. Ltd. Data signalling systems with provision for synchronizing the terminal equipment by transmitting synchronizing signals when loss of synchronism has been detected. 3,312,938. 4–4–67. Cl. 340—146.1.
Cousins, Morison S., and L. A. Pommier, to Lincoln Metal Products Corp. Adjustable storage unit arrangement. 3,343,899. 9–26–67. Cl. 312—111.
Cousins, Otto J.: *See*—
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Cousins, Sydne. Foundation garment. 3,338,241. 8–29–67. Cl. 128—460.
Cousins, William R.: *See*—
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Cousseran, Pierre, J.-M. Hassig, and R. Roche, to Commissariat a l'Energie Atomique. Fuel cluster for nuclear reactor. 3,330,736. 7–11–67. Cl. 176—81.
Cousserans, Gilbert, and R. Amanrich, to Office National Industriel de l'Azote. Isocyanuric acid (carbamyl N-substituted) bis- or tris-N-derivatives and their preparation. 3,328,398. 6–27–67. Cl. 260—248.
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Coutts, Adam, and M. R. Hanson. Convertible car seat and bed for a child. 3,297,358. 1–10–67. Cl. 297—118.
Coutu, Alfred J., and T. R. Egan, to Francis Associates. Electrical connector for closely spaced terminals. 3,303,267. 2–7–67. Cl. 174—88.
Couture, George A. E. Scabbard for ice skate. 3,338,588. 8–29–67. Cl. 280—11.38.
Couture, George A. E. Straightening machine. 3,347,073. 10–17–67. Cl. 72—15.
Couture, Jean. Fishing lure retriever. 3,315,399. 4–25–67. Cl. 43—17.2.
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Couzens, Reginald: *See*—
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Couzens, Reginald, and M. M. Young. Embossing machine. 3,306,188. 2–28–67. Cl. 101—23.
Couzens, Reginald, and M. M. Young. Web material handling apparatus and method. 3,330,553. 7–11–67. Cl. 270—40.
Cova, Fedele, S. De Amicis, and G. Pellegrini, to Autostrade Concessioni E Construsioni Autostrade S.p.A. and Vianini Societa per Azioni. Safety barrier for roadways. 3,326,099. 6–20–67. Cl. 94—31.
Coval, Arthur B.: *See*—
Lee, Arthur L., and Coval. 3,295,624.
Covalt, Robert B., K. J. Hoff, and W. Van Der Zee, to Morton International, Inc. Centrifugal pump. 3,333,545. 8–1–67. Cl. 103—103.
Covell, Gerald P., to Uniroyal, Inc. Clutch drive for conveyor roll. 3,327,837. 6–27–67. Cl. 198—127.
Coventry, Thomas W.: *See*—
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Cover, Ralph. Cutter blade honing machine. 3,339,314. 9–5–67. Cl. 51—95.
Cover, Richard E., to Mobil Oil Corp. Fuels and lubricants containing inclusion compounds. 3,314,884. 4–18–67. Cl. 252—10.
Coverston, George C. Carburetor. 3,325,975. 6–20–67. Cl. 55—225.
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Covert, Calvin C., to General Motors Corp. Propeller oil level control. 3,301,330. 1–31–67. Cl. 170—160.23.
Covert, John N., to Union Special Machine Co. Looper mechanism for sewing machines. 3,354,851. 11–28–67. Cl. 112—200.
Covert, Peter H., and J. J. Gilbert, to Atlantic Microfilm Corp. Apparatus for making microfiche. 3,347,734. 10–17–67. Cl. 156—562.
Covey, Rupert A., A. E. Smith, and W. L. Hubbard, to United States Rubber Co. Method for protecting plants against insects and mites with mixed sulfite esters. 3,311,534. 3–28–67. Cl. 167—22.
Coville, William W., to Pitney-Bowes, Inc. Pneumatic sheet handling apparatus and method of making same. 3,318,640. 5–9–67. Cl. 302—31.
Covington, Cecil E., W. L. Cresap, and J. M. Drees, to Bell Aerospace Corp. Rotor blade. 3,316,976. 5–2–67. Cl. 170—159.
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Covino, Charles P., to General Magnaplate Corp. Apparatus for forming a single multi-layered strip of material from plural strips. 3,313,672. 4–11–67. Cl. 156—467.
Cowan, Clyde L., and E. D. Jordan, to United States of America, Atomic Energy Commission. Hidden explosives detector utilizing long-lived radioactive tracer material. 3,308,296. 3–7–67. Cl. 250—71.5.
Cowan, David M., to The Hy-Dynamic Co. Crane boom. 3,353,686. 11–21–67. Cl. 212—55.
Cowan, Frederick. Flame-monitoring system. 3,307,608. 3–7–67. Cl. 158—28.
Cowan, Henry, to Iso-Speedic Co. Ltd. Rotary supports. 3,340,977. 9–12–67. Cl. 193—37.
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Cowan, John D., and C. C. Waldbillig, ½ to C. Jinkens. Void drain for box beams. 3,344,567. 10–3–67. Cl. 52—99.

Cowan, Laverne M. Dental floss holder. 3,340,881, 9-12-67, Cl. 132—92.

Cowan, Lawrence J. Material handling basket. 3,323,673, 6-6-67, Cl. 217—5.

Cowan, Robert C. Closed circuit heat transfer devices. 3,326,278, 6-20-67, Cl. 165—105.

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Cowans, Kenneth W.: *See*—
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Walsh, Peter J., and Cowans. 3,315,478.

Cowans, Kenneth W., to Hughes Aircraft Co. Coupling arrangement between cryogenic refrigerator and heat load. 3,302,417, 2-7-67, Cl. 62—49.

Cowans, Kenneth W., to Hughes Aircraft Co. Thermal coupling structure for cryogenic refrigeration. 3,306,075, 2-28-67, Cl. 62—514.

Cowans, Kenneth W., to Hughes Aircraft Co. Self-contained cryogenic refrigerator. 3,334,491, 8-8-67, Cl. 62—45.

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Coward, Todd L., and C. Barker, to The Procter & Gamble Co. Detergent composition having synergistic sudsing properties containing amides and sulfonate-containing detergents. 3,332,878, 7-25-67, Cl. 252—152.

Coward, Todd L., and C. Barker, to The Procter & Gamble Co. Ternary synergistic sudsing detergent compositions. 3,332,879, 7-25-67, Cl. 252—152.

Cowden, Herbert B., to Eastman Kodak Co. Desensitizer for exposed silver halide emulsions. 3,314,790, 4-18-67, Cl. 96—62.

Cowden, Lewis M., and W. J. Roach, to Union Carbide Corp. Fountain pen nib. 3,303,826, 2-14-67, Cl. 120—109.

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Cowell, Thomas E., to North American Aviation, Inc. Turbopump assembly. 3,307,359, 3-7-67, Cl. 60—258.

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Crain, James R. 3,296,101.

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Cowles, Craig H., to Walker Mfg. Co. Filter. 3,305,098 2-21-67, Cl. 210—484.

Cowles, John H., to The Torrington Co. Seal for a roller bearing having thin walled race. 3,306,682, 2-28-67, Cl. 308—187.2.

Cowles, John H., to The Torrington Co. Bearing cup with external restraining flange. 3,311,432, 3-28-67, Cl. 308—216.

Cowles, John H., to The Torrington Co. Retainer for overrunning clutch rollers. 3,339,687, 9-5-67, Cl. 192—45.

Cowles, John H., to The Torrington Co. Method of forming sheet metal bearing cup with external restraining flange. 3,348,511, 10-24-67, Cl. 113—117.

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Smith, Lyman W., Estes, Cowles, and Bruchmann. 3,314,420.

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Cowley, Calvin C., to Pharmaseal Laboratories. Hypodermic syringe having improved needle hub retaining sleeve means. 3,301,256, 1-31-67, Cl. 128—218.

Cowley, Calvin C., to Pharmaseal Laboratories. Hypodermic syringe operable by one hand. 3,316,909, 5-2-67, Cl. 128—218.

Cowley, Calvin C., to Pharmaseal Laboratories. Hypodermic syringe with breakable polypropylene needle adaptor. 3,320,954, 5-23-67, Cl. 128—218.

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Cox, Arthur S., and F. G. McMullen, to Sui Generis Process, Inc. Waste processing method and apparatus. 3,304,894, 2-21-67, Cl. 110—15.

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Cox, Harold D., D. S. Hammett, J. R. Dozier, and H. L. Shatto, Jr., to Shell Oil Co. Tension pipe laying method. 3,331,212, 7-18-67, Cl. 61—72.3.

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Cox, William L., to Universal Oil Products Co. Stabilization of rubber with a mixture of diamines. 3,304,285, 2-14-67, Cl. 260—45.9.

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Craft, John L., E. R. Floto, J. W. Newitt, and H. J. Smith, Jr., to International Business Machines Corp. Data storage and retrieval system. 3,344,405, 9-26-67, Cl. 340—172.5.

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Crane, George J., to Huron Nassau Ltd. Process for producing alkali chlorate or alkali perchlorate. 3,350,286, 10–31–67, Cl. 204—95.
Crane, Herbert R., to Emerson Electric Co. Fan hub. 3,342,-273, 9–19–67, Cl. 170—160.53.
Crane, Hewitt D., and E. C. Dowling, to AMP Inc. Magnetic core circuit arrangement. 3,298,002, 1–10–67, Cl. 340—174.
Crane, Hewitt D., W. K. English, and J. A. Baer, to AMP Inc. Switch circuit. 3,312,831, 4–4–67, Cl. 307—88.
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Crano, John C., to Pittsburgh Plate Glass Co. Polymerization process utilizing peroxydicarbonate ester and aminoaromatic sulfonic acid salt as catalyst. 3,312,679, 4–4–67, Cl. 260—93.5.
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Cranston, Albert E., Jr., and W. J. Rowell, to Devco, Inc. Folding machine for two piece wrapper. 3,327,452, 6–27–67, Cl. 53—218.
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Crapuchettes, Paul W., to Litton Precision Products, Inc. Microwave heating apparatus and circuitry. 3,308,390, 3–7–67, Cl. 328—216.
Crast, Leonard B., Jr., to Bristol-Meyers Co. Derivatives of penicillanic acid and cephalosporanic acid. 3,322,749, 5–30–67, Cl. 260—239.1.
Crast, Leonard B., Jr., to Bristol-Meyers Co. 3-Substituted-7-(4'-furazonalkanoyl) aminocephalosporanic acids and 3-substituted-6-(4'-furazanalkanoyl) aminopenicillanic acids. 3,322,750, 5–30–67, Cl. 260—239.1.
Crast, Leonard B., Jr., to Bristol-Meyers Co. 7-(3'-methyl-4'-furazanacetamido)-cephalosporanic acid and 6-(3'-methyl-4'-furazanacetamido) penicillanic acid and realted salts and derivatives. 3,322,751, 5–30–67, Cl. 260—239.1.
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Crast, Leonard B., Jr., and J. M. Essery, to Bristol-Myers Co. Antibacterial agents of the cephalosporin class. 3,352,858, 11–14–67, Cl. 260—243.
Craston, John L., and S. F. Pugh, to United Kingdom Atomic Energy Authority. Nuclear fuel element having sheath of anticlastic form. 3,355,358, 11–28–67, Cl. 176—67.
Crater, Theodore V., to Bell Telephone Laboratories, Inc. Differential PCM system employing digital integration. 3,354,267, 11–21–67, Cl. 179—15.
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Cravens, Du Val, and M. M. Philippbar, to Osmose Wood Preserving Co. of America, Inc. Pile inspection and repair cell. 3,331,211, 7–18–67, Cl. 61—63.
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Crawford, Arthur B., and L. C. Tillotson, to Bell Telephone Laboratories, Inc. Self-steering antenna array system. 3,334,346, 8–1–67, Cl. 343—100.
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Crawford, Charles H., to Colonial Broach & Machine Co. Machine and method of applying metal layer. 3,339,056, 8–29–67, Cl. 219—76.
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Crawford, David B., Sr., and J. W. Loftin, to Standard Fire Protection Equipment Co. Mechanical pipe joint construction. 3,333,872, 8–1–67, Cl. 285—374.
Crawford, David C., to Institutional Industries, Inc. Side panel construction for stretcher-beds. 3,344,445, 10–3–67, Cl. 5—331.
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Crawford, George H., Jr., and D. E. Rice, to Minnesota Mining and Mfg. Co. Halogenated nitroso terpolymers consisting of nitrosoalkanes, fluorine-containing monoolefins, and aliphatic nitroso monocarboxylic acids. 3,321,454, 5–23–67, Cl. 260—92.1.
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Crawford, James R., and R. Hooker, Jr., to Crawford & Russell, Inc. Apparatus for drying particulate material. 3,313,035, 4–11–67, Cl. 34—57.
Crawford, Jay. Method of converting paper back books to hard back books. 3,334,919, 8–8–67, Cl. 281—29.
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Crawford, John M., to Continental Oil Co. Automatic positioning device. 3,305,080, 2–21–67, Cl. 206—46.
Crawford, John M., to Continental Oil Co. Method and apparatus for completing wells. 3,333,635, 8–1–67, Cl. 166—12.
Crawford, John W., to The Singer Co. Solenoid bobbin winders. 3,303,802, 2–14–67, Cl. 112—184.

Crawford, John W. and F. Educational toy. 3,305,945, 2-28-67, Cl. 35—35.

Crawford, John W. C., and W. G. Oakes, to Imperial Chemical Industries Ltd. Compositions comprising polyethylene and an ethylene-propylene block copolymer. 3,328,486, 6-27-67, Cl. 260—876.

Crawford, Joseph H., and R. D. Halverstadt, to General Electric Co. Electrochemical machining of small diameter holes in high temperature superalloys. 3,352,770, 11-14-67, Cl. 204—143.

Crawford, Louis L., and T. E. Christensen, to Chemetron Corp. Conveyor. 3,311,222, 3-28-67, Cl. 198—196.

Crawford, Louis L., T. E. Christensen, V. S. Sondej, and M. S. Bajcar, to Chemetron Corp. Hide stripping method. 3,324,505, 6-13-67, Cl. 17—45.

Crawford, Lynn D., ½ to G. I. Hanscom, and ½ to G. I. Hanscom, R. Magnuson, and L. J. Duggan, as trustees of the estate of R. M. Magnuson. Length sorter. 3,349,905, 10-31-67, Cl. 209—82.

Crawford, Marvin S., ½ to D. R. Long. Masonry cutter. 3,297,015, 1-10-67, Cl. 125—23.

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Crawford, Ralph W., to Fisher-Price Toys, Inc. Magnetic connector for wheeled toys. 3,330,066, 7-11-67, Cl. 46—241.

Crawford, Richard B. Article positioning device. 3,308,923, 3-14-67, Cl. 198—33.

Crawford, Richard B. Load transfer and elevating device. 3,344,902, 10-3-67, Cl. 198—96.

Crawford, Richard L., Jr., to Orday Tool & Engineering Co., Inc. Fuel bypass control for automotive vehicle. 3,327,760, 6-27-67, Cl. 158—36.3.

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Crawford, Thomas J., to Universal Metal Hose Co. Apparatus for forming spiral tubing from a ribbon on thin material. 3,309,003, 3-14-67, Cl. 228—15.

Crawley, Arthur, III, to Crawley Book Machinery, Inc. Book drying apparatus. 3,303,579, 2-14-67, Cl. 34—236.

Crawley Book Machinery, Inc.: *See*—
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Cray, Seymour R., and J. E. Thornton, to Control Data Corp. Multi-processor using the principle of time-sharing. 3,337,854, 8-22-67, Cl. 340—172.5.

Cray, Seymour R., and P. A. Kristensen, to Control Data Corp. Coincident current inhibit system. 3,351,923, 11-7-67, Cl. 340—174.

Crayton, Charles A. Sidewalk paving machine. 3,335,646, 8-15-67, Cl. 94—46.

Creager, John E., to General Motors Corp. Vacuum operated automative temperature control system. 3,319,888, 5-16-67, Cl. 236—87.

Creager, Paul, Jr.: *See*—
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Creasey, Norman G., and J. A. C. Watt, to Imperial Chemical Industries Ltd. Triazinyl-siloxane and hydrolysis products thereof. 3,330,829, 7-11-67, Cl. 260—249.5.

Creasy, William K., and J. C. Jones, to United States of America, National Aeronautics and Space Administration. Shock absorber. 3,330,549, 7-11-67, Cl. 267—64.

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Creel, Ernest S. Drill bit assembly. 3,327,794, 6-27-67, Cl. 175—412.

Creelman, Raymond C. Child-restraining device for physician's use. 3,315,671, 4-25-67, Cl. 128—134.

Creelman, Raymond C. Surgical instrument for conization of uterine cervix. 3,357,422, 12-12-67, Cl. 128—2.

Creger, Paul L., to Parke, Davis & Co. 17β,20-epoxy steroids and methods for their production. 3,320,242, 5-16-67, Cl. 260—239.55.

Creigh, Walter F., to Minnesota Mining and Mfg. Co. Film splicing construction. 3,351,514, 11-7-67, Cl. 161—39.

Creighton, Albert M., Jr., and W. D. Devaney, to Chemical Development Corp. Double-barreled dispensing gun. 3,311,265, 3-28-67, Cl. 222—137.

Creighton, Albert M., Jr., and W. D. Devaney, to Chemical Development Corp. Disposable cartridge for gun-type dispensers. 3,323,682, 6-6-67, Cl. 222—94.

Creighton, Andrew Malcolm, W. R. Wragg, and D. R. Maxwell, to May & Baker Ltd. N-phenylpiperazine compounds. 3,326,916, 6-20-67, Cl. 260—268.

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Creighton, Mitchell H., to Jenkins Metal Shops, Inc. Textile picker screen shaft construction. 3,324,514, 6-13-67, Cl. 19—89.

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Cremer, Josef, F. Hatrmann, F. Rodis, and A. Hinz, to Knapsack-Griesheim Aktiengesellschaft. Method of producing phosphates. 3,318,660, 5-9-67, Cl. 23—107.

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Cremer, Joseph, and F. Rodis, to Knapsack-Griesheim Aktiengesellschaft. Process for the manufacture of dicalcium phosphate. 3,353,908, 11-21-67, Cl. 23—109.

Cremer, Joseph G., to Danfoss A/S. Oil separation arrangement in refrigeration systems. 3,324,680, 6-13-67, Cl. 62—473.

Cremer, Leo J., Jr. High beam indicator. 3,329,809, 7-4-67, Cl. 240—8.4.

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Cremer, William C. Cloth stacking device. 3,357,701, 12-12-67, Cl. 271—68.

Crenshaw, Melvin L., to ACF Industries, Inc. Railway car cushioning arrangement. 3,329,285, 7-4-67, Cl. 213—8.

Crenshaw, Ronnie R., to Bristol-Myers Co. Substituted 3,4-dihydro-3-phenyl-4-hydroxy(amino) alkoxy (or alkyl thio)phenyl thiochroman. 3,321,483, 5-23-67, Cl. 260—293.4.

Crenshaw, Ronnie R., to Bristol-Myers Co. Substituted 3,4-dihydro-3-phenyl-4-hydroxy-4-{[(amino)alkoxy(or alkyl thio)phenyl]isothiochromans. 3,332,956, 7-25-67, Cl. 260—293.4.

Crenshaw, Walter J., H. S. Hicks, and E. O. Oakes, to Riegel Textile Corp. Apparatus for making frieze pile fabrics. 3,353,568, 11-21-67, Cl. 139—21.

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Cresap, Wesley L., and R. R. Lynn, to Bell Aerospace Corp. Rotor system. 3,347,320, 10-17-67, Cl. 170—160.26.

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Claff, Clarence L., Crescenzi, and Ippolito. 3,332,746.

Crescenzo, Frank G., R. L. Dow, and B. Y. S. Lee, to United States of America, Navy. Slow burning plastisol cellulose acetate propellant composition containing resorcinol. 3,306,790, 2-28-67, Cl. 149—93.

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Cresswell, Roger A., to Rolls-Royce Ltd. Gas turbine by-pass engine. 3,352,110, 11-14-67, Cl. 60—229.

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Creswell, Clifford A., to The Arbee Corp. Automatic belt making machine. 3,354,632, 11-28-67, Cl. 59—3.

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Cretors, Charles J.: *See*—
Miller, Jeanne M., Marcus, and Cretors. 3,346,125.

Creuels, Frans H., and J. M. Hermes, to Stamicarbon N.V. Movable face support for use in mines. 3,328,966, 7-4-67, Cl. 61—45.

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Creutz, Hans-Gerhard, R. M. Stevenson, and E. A. Romanowski, to The Udylite Corp. Electro-deposition of copper from acidic baths. 3,328,273, 6-27-67, Cl. 204—52.

Creutzmann, Reinhold, and H. Wullschlaeger, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Transporting carriage for conveyer system. 3,300,023, 1-24-67, Cl. 198—36.

Creveling, Robert. Electronic switch with means to halt the flow of electrons to initiate an arc discharge. 3,317,787, 5-2-67, Cl. 315—168.

Crew, Beverly L., and M. N. Gunzburg, to General Electric Co. Information storage and retrieval system. 3,358,270, 12-12-67, Cl. 340—172.5.

Crewe, Albert V., A. Yokosawa, and D. J. De Geeter, to United States of America, Atomic Energy Commission. High-voltage generator. 3,360,663, 12-26-67, Cl. 310—5.

Crews, Clarence M. Memory system and memory switch unit for controlling automotive running lights. 3,337,768, 8-22-67, Cl. 315—82.

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Crimmins, David J., to The Thomas & Betts Co. Wiring system and connection. 3,336,434, 8-15-67, Cl. 174—72.

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Cripe, Alan R., to United Aicraft Corp. Pneumatic spring assembly. 3,343,831, 9-26-67, Cl. 267—35.

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Crisci, Victor E. to Mammoth Plastics, Inc. Plastic cover for use with bottom feed machines. 3,329,305, 7-4-67, Cl. 220—60.

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Croucher, Antony H. Threading of wires or the like through apertures. 3,309,755, 3–21–67, Cl. 29—25.19.

Crouse, David J., Jr., and F. G. Seeley, to United States of America, Atomic Energy Commission. Process for separating beryllium values from aqueous solutions. 3,359,064, 12–19–67, Cl. 23—23.

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Crouse, John E., to Emhart Corp. Settle blowhead and baffle attachment for glassware forming machine. 3,357,810, 12–12–67, Cl. 65—234.

Crouse, William G., to International Business Machines Corp. Application of triangular waveforms to exponential impedance means to produce sinusoidal waveforms. 3,350,575, 10–31–67, Cl. 307—88.5.

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Crouzet, Henri. Textile winding frames. 3,333,780, 8–1–67, Cl. 242—18.

Crouzet, Henri, to Ateliers Roannais de Constructions Textiles. Cam follower. 3,344,685, 10–3–67, Cl. 74—569.

Crouzet, Jean P. Headgears for protection against cold and unclement weather. 3,295,511, 1–3–67, Cl. 126—208.

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Crovatt, Lawrence W., Jr., to Monsanto Co. Polyamide and fibers derived therefrom. 3,329,633, 7–4–67, Cl. 260—18.

Crovatt, Lawrence W., Jr., to Monsanto Co. Polyamide fibers containing lubricant. 3,342,762, 9–19–67, Cl. 260—18.

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Crow, Morgan L., and M. D. Kilgore, to Dresser Industries, Inc. Mechanical holddown for well packer. 3,356,142, 12–5–67, Cl. 166—134.

Crow, Robert P., and D. Malkin, to Radio Corp. of America. DME with stepper type servo motor. 3,320,612, 5–16–67, Cl. 343—7.3.

Crow, Robert P., and K. K. Fujimoto, to Radio Corp. of America. DME with ground speed and time-to-station indicator. 3,321,757, 5–23–67, Cl. 343—7.3.

Crow, Robert P., and M. S. Masse, to Radio Corp. of America. Controller for stepper type servomotor in DME. 3,324,467, 6–6–67, Cl. 343—7.3.

Crow, Rodney M., to Dow Corning Corp. Flexible dental prosthesis. 3,327,392, 6–27–67, Cl. 32—2.

Crow, Rodney M. Disposable shish-kebab holder. 3,339,478, 9–5–67, Cl. 99—355.

Crowder, Jeffrey L., and W. H. Durrant, to British Aircraft Corp. (Operating) Ltd. Maintenance of temperature conditions in satellites. 3,348,790, 10–24–67, Cl. 244—1.

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Crowder, Thomas E., to United States of America, Atomic Energy Commission. Method of determining the particle size distribution of a powder. 3,333,473, 8–1–67, Cl. 73—432.

Crowdes, George J., and G. H. Hunt, to Simplex Wire and Cable Co. Method of forming sheathed conductor. 3,349,832, 10–31–67, Cl. 164—86.

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Crowe, George A., Jr., and G. J. Liloia, to Johnson & Johnson. Absorbent surgical dressing. 3,301,257, 1–31–67, Cl. 128—296.

Crowe, John E., to Amsted Industries Inc. Injection-type casting apparatus. 3,358,746, 12–19–67, Cl. 164—306.

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Crowell, Clarence R., and S. M. Sze, to Bell Telephone Laboratories, Inc. Surface barrier semiconductor translating device. 3,349,297, 10–24–67, Cl. 317—234.

Crowell, Ernest M., to United Shoe Machinery Corp. Manufacture of strong fibrous material. 3,345,201, 10–3–67, Cl. 117—63.

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Crowell, Merton H., to Bell Telephone Laboratories Inc. Ionization manometer which compares an ion neutralized electron beam flow with an unneutralized beam flow. 3,321,701, 5–23–67, Cl. 324—33.

Crowell, Merton H., to Bell Telephone Laboratories, Inc. Microwave pulse generator. 3,354,408, 11–21–67, Cl. 331—107.

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Crowley, Duncan J., and L. Spiegler, to E. I. du Pont de Nemours and Co. Process for recovering M-phenylene diamine. 3,329,719, 7–4–67, Cl. 260—582.

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Crowley-Milling, Michael C., to Associated Electrical Industries Ltd. Electron gun utilizing a strip transmission line to extract electrons from a cathode. 3,309,557, 3–14–67, Cl. 315—5.

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Crownover, Carl F., and R. L. Every, to Conch International Methane Ltd. Low temperature electrophoretic liquified gas separation. 3,349,020, 10–24–67, Cl. 204—180.

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Crownover, Joseph W., to Control Data Corp. Memory systems and devices. 3,319,232, 5–9–67, Cl. 340—174.

Crownover, Joseph W., to Control Data Corp. Process of forming a multi-apertured magnetic device. 3,340,605, 9–12–67, Cl. 29—604.

Crownover, Joseph W., to Electro Materials Corp. Composition and method for electroding dielectric ceramics. 3,342,655, 9–19–67, Cl. 156—89.

Crowson, Albert L., to Commercial Welding Co., Inc. Livestock tipping table. 3,308,790, 3–14–67, Cl. 119—103.

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Crowther, Albert F., and L. H. Smith, to Imperial Chemical Industries, Ltd. 5 - aroxymethyloxazolidines. 3,317,553, 5–2–67, Cl. 260—307.

Crowther, Albert F., and L. H. Smith, to Imperial Chemical Industries Ltd. 3 - Naphthyloxy - 2 - hydroxy-propylamines. 3,337,628, 8–22–67, Cl. 260—570.7.

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Crowther, Gerald O., and G. F. Jeynes, to North American Phillips Co., Inc. Stepping-tube counting-circuit utilizing a control signal to pre-condition interstage gates to avoid signal time delay. 3,303,383, 2–7–67, Cl. 315—84.5.

Crowther, Gerald O., and G. F. Jeynes, to North American Phillips Co., Inc. Stepping-tube read-in- circuit employing gates to selectively inhibit lower order counters to effect more efficient read-in of additional numbers. 3,303,384, 2–7–67, Cl. 315—84.5.

Crowther, Gerald O., and G. C. Dell, to North American Phillips Co., Inc. Adding and multiplying computer. 3,308,280, 3–7–67, Cl. 235—160.

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Croxall, Willard J., to Miles Laboratories, Inc. N-hydroxyalkyl-N-alkynyl-N-alkyl- and aralkyl amines and process for the preparation thereof. 3,299,141, 1–17–67, Cl. 260—570.9.

Croxen, Donald J. Venetian blind ladder tape. 3,332,471, 7–25–67, Cl. 160—178.

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Crozier, Ronald D., R. E. Harder, J. H. Hood, and R. B. Hurley, to The Dow Chemical Co. Wet spinning of acrylonitrile polymer fibers. 3,346,685, 10–10–67, Cl. 264—182.

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Crump, Lloyd R. Hand operated pocket size emergency signalling device. 3,315,166, 4–18–67, Cl. 325—105.

Crump, Woodford J., to Aircraft Tools Inc. Telephone handset cap tool having a pair of handles and a cup-shaped insert therein. 3,318,177, 5–9–67, Cl. 81—300.

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Cruse, Bernard W., Jr., to Emle Mills, Inc. Guiding means for forms for hosiery or the like. 3,342,391, 9–19–67, Cl. 223—76.

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Cruse, Oliver B., to Wagner Electric Corp. Friction device operating mechanism. 3,326,090, 6–20–67, Cl. 92—24.

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Crusius, Karl D. Multi-colored drum lighting system. 3,346,732 10–10–67, Cl. 240—3.1.

Cruson, Marion J. Child's rideable tank. 3,347,557, 10–17–67, Cl. 280—1.11.

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Cryer, Edward, to Joseph Lucas (Industries) Ltd. Ignition switches. 3,359,383, 12–19–67, Cl. 200—44.

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Csicsatka, Antal, to General Electric Co. De-emphasis network arrangement for AM-FM radios. 3,339,025, 8–29–67, Cl. 179—15.

Csicsatka, Antal, to General Electric Co. Sterophonic radio circuit including phasing circuit for providing reconstituted subcarrier signal. 3,346,699, 10–10–67, Cl. 179—15.

Csicsatka, Antal, to General Electric Co. Biasing arrangement for automatic stereophonic radio receiver. 3,355,552, 11–28–67, Cl. 179—15.

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Csicsatka, Antal, and R. M. Linz, to General Electric Co. Simplified time-sampling stereophonic receiver circuit. 3,351,712, 11–7–67, Cl. 179—15.

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Cuddeback, Howard L. Beaded fastener device. 3,302,260, 2–7–67, Cl. 24—243.

Cuddon-Fletcher, Angus H., to Great Grimsby Coal, Salt and Tanning Co, Ltd. Device for measuring contents of liquefied gas containers. 3,319,730, 5–16–67, Cl. 177—233.

Cue, Clara L., and K. T. Walker. Mercury switch in which time delay is obtained by adjustable metering of non-conductive liquid. 3,325,608, 6–13–67, Cl. 200—83.

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Cugini, John A., to Draper Corp. Doffing mechanism. 3,334,480, 8–8–67, Cl. 57—53.

Cugini, John A., and H. Haagsma, to Draper Corp. Spindle protection device. 3,321,897, 5–30–67, Cl. 57—53.

Cuhra, Bohuslav, and K. Grúner, to Tesla, Narodni Podnik. Method of production of aqueous silver suspensions applied for only one stoving operation. 3,305,369, 2–21–67, Cl. 106—1.

Culbertson, George T., to Master Specialties Co. Delayed pull in time delay relay. 3,303,396, 2–7–67, Cl. 317—142.

Culbertson, George T., to Master Specialties Co. Voltage sensor. 3,320,493, 5–16–67, Cl. 317—148.5.

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Culik, Karel, J. Dasek, J. Palkoska, and J. Pelzbauer, to Spofa Sdruzeni podniku pro zdravolnickou vyrobu. Method of tetracycline isolation from fermented edia. 3,349,127, 10–24–67, Cl. 260—559.

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Cull, William. 3,320,829.

Cull, John V. Thirteen traffic connector. 3,315,210, 4–18–67, Cl. 339—32.

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Cull, Neville L.: *See*—
Mertzweiller, Joseph K., and Cull. 3,318,972.

Cull, Neville L., to Esso Research and Engineering Co. Colloidal silica containing latices of hydroformylated polymers of conjugated dienes. 3,314,911, 4–18–67, Cl. 260—29.7.

Cull, Neville L., and M. Nadler, to Esso Research and Engineering Co. Reducing acidity of polymer latices. 3,298,846, 1–17–67, Cl. 106—287.

Cull, Neville L., and J. K. Mertzweiller, to Esso Research and Engineering Co. Decobalting hydroxylated polymers with concentrated phosphoric acid. 3,330,875, 7–11–67, Cl. 260—637.

Cull, Neville L., and J. K. Mertzweiller, to Esso Research and Engineering Co. Flexible oxygen containing polybutadiene surface coating composition. 3,337,489, 8–22–67, Cl. 260—30.4.

Cull, Neville L., and L. A. Pine, to Esso Research and Engineering Co. Oxonation of cyclododecatriene to cn alcohol. 3,354,229, 11–21–67, Cl. 260—617.

Cull, William, to Birfield Engineering Ltd. Universal joints. 3,310,960, 3–28–67, Cl. 64—21.

Cull, William, Jr. to Cull Development Ltd. Transmission systems. 3,320,829, 5–23–67, Cl. 74—720.5.

Cullen, Charles G.: *See*—
Lister, Fred, Cullen, and Hopper. 3,296,179.

Cullen, Geoffrey W., to The Plessey Co. Ltd. Multi-circuit switch with improved castellated sections. 3,308,249, 3–7–67, Cl. 200—14.

Cullen, James J., to National Lead Co. Ultrasonic testing apparatus for determining the presence or absence of material within a tubular member. 3,308,651, 3–14–67, Cl. 73—67.5.

Cullen, John L.: *See*—
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Cullen, Orville, to Midland-Ross Corp. Carburizing method and apparatus. 3,356,451, 12–5–67, Cl. 148—16.5.

Cullen, Roy H.: *See*—
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Cullen, Roy H., and C. H. Elliott; said Elliott assor. to said Cullen. Flow line pressure control. 3,306,357, 2–28–67, Cl. 166—63.

Cullen, Roy H., and L. D. Richards; said Richards assor. to said Cullen. Apparatus for handling hose or similar elongate members. 3,317,103, 5–2–67, Cl. 226—173.

Cullen, Roy H., C. H. Elliott, L. D. Richards, W. E. Burke, and J. R. Aker, to Roy H. Cullen. Hose end coupling. 3,318,620, 5–9–67, Cl. 285—149.

Cullen, Roy H., C. H. Elliott, J. R. Aker, and W. E. Burke; said Elliott, Aker, and Burke assors. to said Cullen. Apparatus for handling flexible pipe or similar elongate members. 3,330,459, 7–11–67, Cl. 226—173.

Culler, Glen J., to The Bunker-Ramo Corp. On-line computing system for processing mathematical functions. 3,355,714, 11–28–67, Cl. 340—172.5.

Culley, Theodore P. Adherent cushioning support. 3,311,338, 3–28–67, Cl. 248—205.

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Cullis, John, Jr., to Burroughs Corp. Lenticular optical display device having masking means for eliminating crosstalk. 3,330,614, 7–11–67, Cl. 350—167.

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Cullity, Richard E., to W. J. Voit Rubber Corp. Pressure regulator, mouthpiece, exhaust duct and strap for underwater breathing apparatus. 3,348,540, 10–24–67, Cl. 128—147.

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Culman, William J., to The J. H. Day Co. Sanitary stuffing box. 3,313,550, 4–11–67, Cl. 277—4.

Culp, Fred A., to The Ohio Corrugating Co. Apparatus for closing the open ends of cylindrical bodies. 3,301,208, 1–31–67, Cl. 113—114.

Culp, John D.: *See*—
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Culpepper, Alan L., to Dow Corning Corp. Haloethersilanes. 3,334,123, 8–1–67, Cl. 260—448.8.

Culpepper, James L. Means for supplying cold gas to a propulsion jet in outer space. 3,304,722, 2–21–67, Cl. 60—233.

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Cumberland, Joseph M. Knock-off type wheel retainers. 3,345,110, 10–3–67, Cl. 301—9.

Cumberland, Joseph R. Glass thickness gauge. 3,320,849, 5–23–67, Cl. 88—14.

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Cumming, James C., to Rockwell-Standard Corp. Brake mechanisms. 3,324,975, 6–13–67, Cl. 188—78.

Cumming, James C., to Rockwell-Standard Corp. Floating cam brake. 3,346,077, 10–10–67, Cl. 188—78.

Cumming, James D. Expansion shell for rock bolts. 3,312,138, 4–4–67, Cl. 85—66.

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Cummings, David M. Desk for use in vehicle. 3,345,118, 10–3–67, Cl. 312—235.

Cummings, Edgar H., to The National Acme Co. Threading implement. 3,352,139, 11–14–67, Cl. 72—123.

Cummings, Ernest E., to Crutcher-Rolfs-Cummings, Inc. Pipe bending machine. 3,335,588, 8–15–67, Cl. 72—28.

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Cummings, Henry S., Jr., D. Campanile, and P. H. Wilder, to Lowell Wrench Co. Ratchet mechanism. 3,332,295, 7–25–67, Cl. 74—157.

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Cummings, Howard E., to Shenango Ceramics, Inc. Kiln loader and unloader. 3,360,102, 12–26–67, Cl. 198—31.

Cummings, Jan G., and R. N. Maskell, to Container Corp. of America. Container for frozen product. 3,352,472, 11–14–67, Cl. 229—14.

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Cummings, Marcus A.: *See*—
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Cummings, William P., L. L. Baral, and J. A. Laudone, to W. R. Grace & Co. Process for preparing a desiccant pellet. 3,301,788, 1–31–67, Cl. 202—194.

Cummins, Alfred B. Tackling dummy with freely suspended fibrous core. 3,337,217, 8–22–67, Cl. 273—55.

Cummins, Clessie L., Jr., to The Buehler Corp. Check valve cartridge assembly. 3,355,108, 11–28–67, Cl. 239—90.

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Cummins, James B., to Photogrammetry, Inc. Panoramic camera with off-axis lens. 3,311,038, 3–28–67, Cl. 95—16.

Cummins, Orval J., to Oxford Paper Co. Web break sensing monitor for paper machines. 3,350,262, 10–31–67, Cl. 162—255.

Cummins, Phil F., to General Dynamics Corp. Survival garment. 3,319,260, 5–16–67, Cl. 2—2.

Cummins, Richard D., to Carleton Controls Corp. Valve construction. 3,319,649, 5–16–67, Cl. 137—505.18.

Cunmins, Richard W., to FMC Corp. Process for the production of polyformals of hydroxyalkyl-isocyanurates. 3,296,207, 1–3–67, Cl. 260—67.5.

Cummins, Thomas A. Power transmission. 3,318,172, 5–9–67, Cl. 74—682.

Cumnins, Walter P.: 50% to F. W. Knisley. Football dial chart. 3,313,045, 4–11–67, Cl. 35—74.

Cumpston, Edward H., Jr. Method and machine for indicating the firmness of a body. 3,329,024, 7–4–67, Cl. 73—432.

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Cunha, Joseph J., to Cunha Products Inc. Load distributing tractor-trailer assembly. 3,312,479, 4–4–67, Cl. 280—407.

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Cunningham, Beulah F., and B. W. Thompson. Combined hairbrush and style lift. 3,358,211, 12–19–67, Cl. 15—105.

Cunningham, Cabot L. World-wide time indicator. 3,348,321, 10–24–67, Cl. 35—46.

Cunningham, Donald F., to U.S. Partition & Packaging Corp. Step-by-step partition strip feeding mechanism. 3,304,082, 2–14–67, Cl. 271—42.

Cunningham, Donald F., to U.S. Partition & Packaging Corp. Partition strip holddown device. 3,308,927, 3–14–67, Cl. 198—160.

Cunningham, Donald M.: *See*—
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Cunningham, Donald M., to E. L. Wiegand Co. Plug-in electric heater construction. 3,336,466, 8–15–67, Cl. 219—451.

Cunningham, Francis V. Kite. 3,297,282, 1–10–67, Cl. 244—153.

Cunningham, Frank W., and J. V. Luck. Surgical mask. 3,315,672, 4–25–67, Cl. 128—139.

Cunningham, Franklin E., L. Kline, and H. Lineweaver, to United States of America, Agriculture. Egg white composition containing triethyl phosphate having enhanced whipping properties. 3,328,175, 6–27–67, Cl. 99—113.

Cunningham, Gerald A., to Colorado Outdoor Sports Corp. Non-sagging pack. 3,321,120, 5–23–67, Cl. 224—8.

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Cunningham, James A., to Texas Instruments Inc. High temperature electrical contacts for silicon devices. 3,325,702, 6–13–67, Cl. 317—234.

Cunningham, James A., and R. H. Johnson, to Texas Instruments Inc. Low capacitance planar diode. 3,319,135, 5–9–67, Cl. 317—234.

Cunningham, James A., and R. P. Williams, to Texas Instruments Inc. Metallic contacts for semiconductor devices. 3,341,753, 9–12–67, Cl. 317—234.

Cunningham, James M., to International Business Machines Corp. Ventilated and soundproofed enclosure for printer. 3,308,919, 3–14–67, Cl. 197—186.

Cunningham, James M., to International Business Machines Corp. Variable cycle control system for a high speed printer. 3,312,174, 4–4–67, Cl. 101—93.

Cunningham, Joseph A., to Crose-United Corp. Pipe come-along apparatus. 3,355,792, 12–5–67, Cl. 29—237.

Cunningham, Kelley G. Engine. 3,302,625, 2–7–67, Cl. 123—11.

Cunningham, Loyd L. Spark plug tool. 3,322,007, 5–30–67, Cl. 81—125.

Cunningham, McCleery B., and C. K. Dunlap, Jr., to Sonoco Products Co. Forming tube for glass fibers. 3,323,751, 6–6–67, Cl. 242—118.32.

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Platus, David L., Marovich, and Cunningham. 3,360,080.
Platus, David L., Marovich, and Cunningham. 3,360,081.

Cunningham, Patrick J., D. H. Platus, F. A. Marovich, and G. Epstein, to A.R.A., Inc. (Aerospace Research Associates). Rolling cylindrical diaphragm means. 3,321,112, 5–23–67, Cl. 222—386.5.

Cunningham, Paul M., to Collins Radio Co. Detector circuits for directly strobing radio frequency signals. 3,327,219, 6–20–67, Cl. 325—325.

Cunningham, Rae H., to Newport News Shipbuilding and Dry Dock Co. Method and apparatus for fusion welding. 3,320,402, 5–16–67, Cl. 219—137.

Cunningham, Richard, Jr., and J. D. Kimmel, to Vapor Corp. Steam generator. 3,352,289, 11–14–67, Cl. 122—240.

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Chitwood, Henry C., Freure, and Cunningham. 3,340,311.
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Cunningham, Ronald J. Electrical power outlet control. 3,331,013, 7–11–67, Cl. 323—22.

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Cunningham, Thomas W., to U.S. Stoneware, Inc. Ball mill or the like. 3,295,772, 1–3–67, Cl. 241—182.

Cunningham, Thomas W., to D. H. Baldwin Co. Electronic organ. 3,300,569, 1–24–67, Cl. 84—1.22.

Cunningham, Walter F., to Superior-Tabbies, Inc. Index tabs. 3,348,324, 10–24–67, Cl. 40—23.

Cunningham, Wesley B. Percussion device. 3,299,968, 1–24–67, Cl. 173—135.

Cunningham, Wesley B. Demolition device. 3,319,724, 5–16–67, Cl. 173—119.

Cunningham, Wesley B. Demolition device. 3,358,779, 12–19–67, Cl. 173—119

Cunningham, William E. Automatic momentum-actuated switch mechanism. 3,330,921, 7–11–67, Cl. 200—61.48.

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Anello, Louis G., and Cunningham. 3,356,747.

Cunningham, William J., to Rohm & Haas Co. Alkoxyalkyl terpenyl phthalates. 3,342,852, 9–19–67, Cl. 260—475.

Cunningham, Zed. Telephone handset holder. 3,347,998, 10–17–76, Cl. 179—157.

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McGorty, Carroll J., and Cuoco. 3,302,778.

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Barbaras, Glen D., Cupery, and Loder. 3,297,425.

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Cupery, Martin E., to E. I. du Pont de Nemours and Co. 2-cyanosorbamide. 3,299,119, 1–17–67, Cl. 260—465.4.

Cupery, Martin E. Process for making fiber-filled polytetrafluoroethylene packing materials. 3,314,916, 4–18–67, Cl. 260—41.

Cupery, Martin E. Process and device for applying pliable tapes to irregular surfaces. 3,328,219, 6–27–67, Cl. 156—187.

Cupler, John A., II. Positioning apparatus. 3,305,930, 2–28–67, Cl. 33—147.

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Cupp, Frederick B., and C. W. Palley, to United States of America, Navy. Sonic simulator. 3,311,868, 3–28–67, Cl. 340—5.

Cupp, Frederick B., and B. L. Frankel, to United States of America, Navy. Depth indicator and controller. 3,351,895, 11–7–67, Cl. 340—3.

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Curci, William A. Frangible masonry unit. 3,354,592, 11–28–67, Cl. 52—98.

Curcio, John B. Dump body side wall construction. 3,306,654, 2–28–67, Cl. 296—28.

Curello, Charles, and B. S. Nickerson, to Mite Corp. Sewing machine attachment for sewing buttons. 3,354,849, 11–28–67, Cl. 112—115.

Curewitz, Kenneth E., to Honeywell Inc. Multiple mode data processing system controlled by information bits or special characters. 3,344,404, 9–26–67, Cl. 340—172.5.

Curiel, Raymond F. Toothbrush sanitizer. 3,342,544, 9–19–67, Cl. 21—83.

Curl, Donald S., to A. Lipson, and B. Smith. Combination metal door and door frame unit. 3,296,743, 1–10–67, Cl. 49—382.

Curl, Donald S., to A. Lipson, and B. Smith. Devices for removably locking panels in framing. 3,296,763, 1–10–67, Cl. 52—475.

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Curless, William T., and G. A. Terry, to Gulf Oil Corp. Manufacture of nitrous oxide. 3,360,336, 12–26–67, Cl. 23—158.

Curlett, John, to Gurries Mfg. Co. Automatic control system for construction vehicles. 3,296,722, 1–10–67, Cl. 37—144.

Curlett, John, R. A. Gurries, and A. H. Rodriguez, to Gurries Mfg. Co. Grade wire support. 3,342,446, 9–19–67, Cl. 248—221.

Curlett, John, and R. A. Gurries, to Gurries Mfg. Co. Level control mechanism for road building machines. 3,346,976, 10–17–67, Cl. 37—156.

Curlook, Walter, to The International Nickel Co., Inc. Reduction of metal oxides. 3,311,466, 3–28–67, Cl. 75—26.

Curra, Richard S., Jr., to Hussey Mfg. Co., Inc. Gymnasium stand with foldable seats. 3,352,069, 11–14–67, Cl. 52—9.

Curran, Bernard E., to H. H. Robertson Co. Exterior siding and inner sheathing structure therefor. 3,343,325, 9–26–67, Cl. 52—478.

Curran, Jerimiah J. Rate-saving shipping label. 3,353,845, 11–21–67, Cl. 282—23.

Curran, John P. S., and L. Holliday, to Lucas, Joseph (Industries) Ltd. Variable flow metering devices. 3,310,939, 3–28–67, Cl. 60—39.28.

Curran, Martin J., Jr. Hydraulic balancing device. 3,348,810, 10–24–67, Cl. 254—133.

Curran, Robert E. Faucet structures. 3,347,518, 10–17–67, Cl. 251—333.

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Rojic, John A., Wade, and Curran. 3,324,980.

Curran, Robert J., to Borg-Warner Corp. Steering wheel shaft column. 3,335,619, 8–15–67, Cl. 74—495.

Curran, Robert K., and A. I. Coleman, to Air Products and Chemicals, Inc. Method and apparatus for analyzing an impurity gas of lower ionization potential than its carrier gas. 3,358,140, 12–12–67, Cl. 250—43.5.

Curran, Thomas A., Jr., to E. I. du Pont de Nemours and Co. Spinneret assembly. 3,336,633, 8–22–67, Cl. 18—8.

Curran, Thomas D., to Fibreboard Paper Products Corp. Foamed seal package. 3,341,105, 9–12–67, Cl. 229—37.

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Curran, Willard F., to Danly Machine Specialties, Inc. Apparatus for reversing a workpiece for an automatic press line. 3,342,125, 9–19–67, Cl. 100—207.

Currean, Robert A., to The First Safe Deposit National Bank of New Bedford. Method of manufacturing electric circuit structures. 3,330,695, 7–11–67, Cl. 117—212.

Curren, John L. Compact coiled tube heat exchanger. 3,306,352, 2–28–67, Cl. 165—163.

Curren, William J., to The Foxboro Co. Chromatographic apparatus for measuring hydrogen components. 3,319,458, 5–16–67, Cl. 73—23.1.

Current, Ira B., to General Aniline & Film Corp. Processing device for motion picture films. 3,301,159, 1–31–67, Cl. 95—94.

Current, James H., to Schlumberger Well Surveying Corp. Non-retrievable bridge plug. 3,298,440, 1–17–67, Cl. 166—123.

Current, James H., to Schlumberger Well Surveying Corp. Well tool coupling member. 3,329,450, 7–4–67, Cl. 287—2.

Current, James H., to Schlumberger Technology Corp. Non-retrievable bridge plug. 3,343,607, 9–26–67, Cl. 166—182.

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Current, John M., and W. F. Rea, to Johns-Manville Corp. Method and apparatus for treating and converging fibers. 3,335,046, 8–8–67, Cl. 156—441.

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Grigor, James, Parker, and Currie. 3,351,506.

Currie, Courtlyn B., to Honeywell Inc. On-off and modulating condition control valve. 3,307,785, 3–7–67, Cl. 236—80.

Currie, Daniel P. Means for increased pitch change rate. 3,331,445, 7–18–67, Cl. 170—160.32.

Currie, Grover C., to Viking Corp. Packaging machine and method. 3,302,365, 2–7–67, Cl. 53—29.

Currie, Harold B., to Radio Corp. of America. First stroke locator for a character reader. 3,349,372, 10–24–67, Cl. 340—146.3.

Currie, Harry A., Jr., J. S. Mason, and R. H. Wise, to Texas Instruments Inc. Decimal rate multiplication system. 3,321,610, 5–23–67, Cl. 235—160.

Currie, Harry A., Jr., J. S. Mason, and R. H. Wise, to Texas Instruments Inc. and ½ to Sanitary Scale Co. Price computing and marking apparatus. 3,329,807, 7–4–67, Cl. 235—159.

Currie, William E., to Parker-Hannifin Corp. Tube coupling. 3,326,582, 6–20–67, Cl. 285—341.

Currier, James W., to International Minerals & Chemical Corp. Method and apparatus for solution mining. 3,297,362, 1–10–67, Cl. 299—5.

Currier, John A., to Scott & Williams, Inc. Knitting machines. 3,306,079, 2–28–67, Cl. 66—134.

Currier, John A., to Scott & Williams, Inc. Knitted products. 3,327,500, 6–27–67, Cl. 66—187.

Currier, John A., to Scott & Williams, Inc. Methods and machines for stocking production. 3,340,706, 9–12–67, Cl. 66—26.

Currier, John A., to Scott & Williams, Inc. Method and machines for stocking production. 3,340,707, 9–12–67, Cl. 66—26.

Currier, Vernon A., and J. G. Milligan, to Jefferson Chemical Co., Inc. Azeotropic distillation of diethylenetriamine and aminoethylethanolamine from piperazine residue. 3,331,756, 7–18–67, Cl. 203—69.

Currin, Cedric G., to Dow Corning Corp. Semiconductor leakage detector and control circuit. 3,312,862, 4–4–67, Cl. 317—10.

Currin, Cedric G., and J. S. Hood, Jr., to Dow Corning Corp. Automatic apparatus for measuring resistivity of semiconductors. 3,312,893, 4–4–67, Cl. 324—64.

Curry, Andrew J., Jr., to Curry Brothers, Inc. Display device for sub-dividing a large compartment. 3,303,956, 2–14–67, Cl. 217—7.

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Curry, Elisha J. and B. L. 3,339,447.

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Curry, Andrew J., Jr. 3,303,956.

Curry, Byron: *See*—
Anderson, Paul G. 3,298,045.

Curry, David B. Milling tool for milling or cutting objects in a well bore. 3,337,936, 8–29–67, Cl. 29—103.

Curry, Elisha J. and B. L. Music teaching aid. 3,339,447, 9–5–67.

Curry, James E., to United States of American, National Aeronautics and Space Administration. Method of producing alternating ether-siloxane copolymers. 3,346,515, 10–10–67, Cl. 260—2.

Curry, James J.: *See*—
Meyer, Werner H., and Curry. 3,354,813.

Curry, Nolan A.: *See*—
Timmer, William F., and Curry. 3,296,022.

Curry, Robert P., and C. G. Craddock, to Geigy Chemical Corp. Catalytic preparation of phosphoric acid esters. 3,329,678, 7–4–67, Cl. 260—251.

Curry, Robert S., Jr., E. F. Potter, and R. R. Rover, Jr., to Sperry Rand Corp. Windscreen type display apparatus. 3,339,203, 8–29–67, Cl. 343—108.

Curry, Walter A. Sprinkler control means and combination. 3,321,138, 5–23–67, Cl. 239—99.

Curtice, Gerald M., to Archer-Daniels-Midland Company. Water dispersible resins comprising polyalkylene glycol, dicarboxylic acid and polyhydric alcohol. 3,310,512, 3–21–67, 260—29.4.

Curtie, Maurice C.: *See*—
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Curtin, Michael D., Jr., to The Proctor & Gamble Co. Process for the production of quaternary ammonium compounds. 3,318,954, 5–9–67, Cl. 260—567.6.

Curtin, Paul J.: *See*—
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Curtindale, Edward G., to General Motors Corp. Turn signal system with automatic canceling means. 3,309,663, 3–14–67, Cl. 340—55.

Curtis, Carl. Auxiliary battery system for motor vehicles. 3,340,402, 9–5–67, Cl. 307—48.

Curtis, Charles, to Enresco, Inc. Self propelled irrigator. 3,352,493, 11–14–67, Cl. 239—177.

Curtis, Charles G., and P. C. Jennings, said Jennings assor. of 60% to said Curtis. Suspension system actuated self propelled fluid discharge device. 3,314,608, 4–18–67, Cl. 239—177.

Curtis, Donald R., to Allis-Chalmers Mfg. Co. Vaned paper making machine headbox manifold having adjustable thickness vanes. 3,304,224, 2–14–67, Cl. 162—343.

Curtis, Donald R., to Allis-Chalmers Mfg., Co. Sleeve and roll assembly. 3,318,233, 5–9–67, Cl. 100—121.

Curtis, Edward G., to The Dow Chemical Co. Method of covering a trayless package with heat shrinkable plastic film. 3,348,356, 10–24–67, Cl. 53—30.

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Curtis, George G., and B. Buchner, to Continental Oil Co. N-(2-chloroalkyl)-phosphoramidothionates. 3,337,656, 8–22–67, Cl. 260—959.

Curtis, Gerald J. Fish stringer. 3,332,121, 7–25–67, Cl. 24—257.

Curtis, Gerald R., J. C. Kyle, and G. Robinson, to Physical Sciences Corp. Temperature compensated magnetic transducer. 3,308,412, 3–7–67, Cl. 336—136.

Curtis, Gordon A.: *See*—
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Curtis, Guy A. Garage door with anti-jamming rollers. 3,336,968, 8–22–67, Cl. 160—188.

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Curtis, Harry W.: *See*—
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Curtis, Herbert J., to United States Steel Corp. Transfer apparatus for conveyor sampling baskets. 3,306,474, 2–28–67, Cl. 214—1.

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Curtis, James H., to Miles Laboratories, Inc. Water-dispersible form of dialdehyde starch and process therefor. 3,299,052, 1–17–67, Cl. 260—233.3.

Curtis, John C., and T. A. Parssinen, to Joy Mfg. Co. Dual rotation for rock drills. Re. 26,321, 12–5–67, Cl. 173—96.

Curtis, Joseph A., Jr. Cigarette assembly. 3,318,312, 5–9–67, Cl. 131—10.5.

Curtis, Kenneth B., to Metro-Kalvar, Inc. Apparatus for sound and image printing of irradiation sensitive film. 3,323,434, 6–6–67, Cl. 95—75.

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Curtis & Marble Co.: *See*—
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Curtis & Marble Machine Co.: *See*—
Clark, Elmer F., and Cogoli. 3,333,733.
Davidson, Ralph L., and Kurtz. 3,334,834.

Curtis 1000 Inc.: *See*—
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Curtis, Ralston, and G. E. Lukes, deceased (by J. Hazzard, administrator), to Stauffer Chemical Co. Alkyliminodethiocarbonates and alkali salts thereof. 3,335,182, 8–8–67, Cl. 260—566.

Curtis, Richard P.: *See*—
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Curtis, Robert B., to Bell Telephone Laboratories, Inc. Equipment for operator served calls at an intermediate switching center. 3,341,661, 9–12–67, Cl. 179—27.

Curtis, Robert E. Tool for dimensional and/or angular measuring. 3,321,835, 5–30–67, Cl. 33—75.

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Curtis, Wilfred A., and J. F. Keating. Trailer spare and third wheel. 3,348,861, 10–24–67, Cl. 280—475.

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Curtiss, Arthur J., and C. V. Wilson. Self-propelled water vehicle. 3,358,636, 12–19–67, Cl. 115—28.

Curtiss, John N., C. N. Forsvall, Jr., and K. W. Rausch, Jr., to The Upjohn Co. Continuous process for producing mixtures of methylene-bridged polyphenyl polyamines. 3,297,759, 1–10–67, Cl. 260—570.

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Curtius, Ulrich, V. Bollert, G. Fritz, and J. Nentwig, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of carbonic and carboxylic acid derivatives. 3,326,958, 6–20–67, Cl. 260—463.

Curto, Nicholas J., and J. E. Henry, to Owens-Illinois, Inc. Method and apparatus for extruding thermoplastic material. 3,351,694, 11–7–67, Cl. 264—176.

Curwen, Peter W., to Mechanical Technology Inc. Resonant piston compressor. 3,303,990, 2–14–67, Cl. 230—55.

Curwen, Peter W., to Mechanical Technology Inc. Resonant piston compressor. 3,329,334, 7–4–67, Cl. 230—55.

Cusano, Dominic A., and R. L. Sormberger, to General Electric Co. Heterojunction electroluminescent devices. 3,330,983, 7–11–67, Cl. 313—108.

Cuschera, Casper. Faucet drinking fountain. 3,325,101, 6–13–67, Cl. 239—25.

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Cushing, Donald S., to General Electric Co. Anti-siphon device for an automatic washer. 3,346,000, 10–10–67, Cl. 137—216.

Cushing, George B., and F. L. Reese, to Westinghouse Electric Corp. Oil type circuit breakers having outer continuous insulating support tube and inner stacked insulating plates providing lateral vent openings. 3,356,811, 12–5–67, Cl. 200—150.

Cushing, Vincent J. Screened electromagnetic flowmeter. 3,329,020, 7–4–67, Cl. 73—194.

Cushing, Vincent J., and W. A. Beaudry, to United States of America, Navy. Dispersal type cluster warhead. 3,295,444, 1–3–67, Cl. 102—7.2.

Cushman, Kenneth V., to The Delron Co., Inc. Floating nut insert. 3,339,609, 9–5–67, Cl. 151—41.7.

Cushman, Kenneth V. Locking mechanism. 3,341,233, 9–12–67, Cl. 287—20.924.

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Cusic, John W., and E. F. Le Von, to G. D. Searle & Co. Aminopiperazine derivatives. 3,301,851, 1–31–67, Cl. 260—240.

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Cusic, John W., and P. Yonan, to G. D. Searle & Co. Derivatives of isonipecotamide. 3,320,246, 5–16–67, Cl. 260—243.

Cusic, John W., and P. Yonan, to G. D. Searle & Co. Dibenzocyclohepten-5-ylpiperazines. 3,320,259, 5–16–67, Cl. 260—268.

Cusic, John W., and W. E. Coyne, to G. D. Searle & Co. Complex amides of dihydrodibenzo[b,f][1,4]oxazepine-10-carboxylic acids. 3,357,998, 12–12–67, Cl. 260—333.

Cusick, Richard T., to United States of America, Navy. Switch for high energy circuits. 3,344,248, 9–26–67, Cl. 200—82.

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Cuthbert, Robert M., to British Columbia Research Council. Torsion monitoring apparatus. 3,309,920, 3–21–67, Cl. 73—136.

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Cutri, Frank J., to Carlton Paper Corp. Pattern duplicating machine. 3,306,195, 2–28–67, Cl. 101—132.5.
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Cuvelier, Michel, to American Radiator & Standard Sanitary Corp. Conveying mechanism for a tunnel kiln. 3,338,569, 8–29–67, Cl. 263—6.
Cuzner, Joseph A., and K. R. V. Pandalai, to Martin-Marietta Corp. Process of preparing lithographic plates. 3,335,072, 8–8–67, Cl. 204—17.
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Cvar, Harry J. Mail signal device. 3,338,511, 8–29–67, Cl. 232—35.
Cvikl, Ernst. Three-dimensional load-supporting structures and methods of producing such structures. 3,345,793, 10–10–67, Cl. 52—655.
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Cyba, Henryk A., to Universal Oil Products Co. Stabilization of rubber with dicyclohexyldiaminodiphenyl ether. 3,297,628, 1–10–67, Cl. 260—45.9.
Cyba, Henryk A., to Universal Oil Products Co. Polyhydroxyalkylalkylene polyamine borate esters. 3,301,888, 1–31–67, Cl. 260—462.
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Cymmer, Thomas, and R. Raphael, to United States of America, Navy. Guide for faired cable. 3,347,526, 10–17–67, Cl. 254—190.
Cypher, James H., to Pittsburgh Plate Glass Co. Apparatus for supporting a glass sheet in an upright position for heat treating. 3,353,945, 11–21–67, Cl. 65—273.
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Cyphers, Robert A. Aquatic trash rakes. 3,325,013, 6–13–67, Cl. 210—159.
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Cyr, Gilman N., and J. L. Chen, to E. R. Squibb & Sons, Inc. Long lasting troche. 3,312,594, 4–4–67, Cl. 167—82.
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Cywinski, Norbert F., to Phillips Petroleum Co. Producing halogenated olefinic hydrocarbons from 1-alkynes and perhaloalkanes. 3,338,981, 8–29–67, Cl. 260—654.

Czajkowski, George J., and P. E. Liakakos, to Universal Oil Products Co. Hydroforming with a platinum catalyst. 3,296,118, 1–3–67, Cl. 208—100.
Czajkowski, George J., and P. E. Liakakos, to Universal Oil Products Co. Recycle of hydrodealkylation product for hydrogen enrichment. 3,322,842, 5–30–67, Cl. 260—672.
Czap, Lawrence. Ulnar drift splint. 3,299,887, 1–24–67, Cl. 128—77.
Czapek, Andre, to Societe d'Optique et de Mecanique de Haute Precision. Photogrammetric plotter. 3,302,291, 2–7–67, Cl. 33—20.
Czaplewski, Billy S., to Omaha Body & Equipment Co. Dual dump gate construction. 3,298,745, 1–17–67, Cl. 298—37.
Czarneckl, Adolph, to Anchor Steel and Conveyor Co. Mechanical index drive. 3,295,381, 1–3–67, Cl. 74—84.
Czarneckl, Jerzy J., to De Laval Turbine Inc. Pulsator pumps. 3,335,666, 8–15–67, Cl. 103—44.
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Czech, Clifford F., to McGraw-Edison Co. Dryer door and filter assembly. 3,304,624, 2–21–67, Cl. 34—82.
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Czorny, Vasil P., W. H. Ring, K. A. Pannier, and J. L. Sorenson, to Sorenson Research Corp. Intravenous catheter protector unit. 3,324,853, 6–13–67, Cl. 128—214.4.
Czubak, Albin S., to Micromatic Hone Corp. Bore gauging device. 3,324,378, 5–16–67, Cl. 200—61.41.
Czubak, Albin S., to Micromatic Hone Corp. Linear motion transmitting device. 3,350,948, 11–7–67, Cl. 74—53.
Czubak, Albin S., and G. A. Hubble, to Micromatic Hone Corp. Automatic stamping mechanism. 3,345,938, 10–10–67, Cl. 101—43.
Czubak, Albin S., and R. W. Militzer, to Micromatic Hone Corp. Apparatus for parallel face finishing. 3,333,366, 8–1–67, Cl. 51—67.
Czulak, Joseph, and C. E. Kawchitch. Apparatus for the sanitization of liquids with especial application to water storages and swimming pools. 3,336,099, 8–15–67, Cl. 21—102.
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Fries, Edward W., Kaufman, Splel, and Lipka. 3,298,302.
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Leadbetter, Gilbert E., and Rice. 3,312,483.
Marshall, Charles M., and McCullough. 3,356,246.
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Sheffield, Kenneth J. W. 3,307,589.
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Daalderop, Wilhelmina G. J. M.: *See*—
Daalderop, Wilhelmus H. J. D. 3,354,766.
Daalderop, Wilhelmus H. J. D., deceased (by M. J. W. E. Daalderop-van Oppenraaij, heir and guardian of minors, M. W. H. M. Wakkerman-Daalderop, M. W. J. G. P. Junior-Daalderop, and W. G. J. M., E. W. M. and J. J. M. Daalderop, heirs), to N. V. Koninklijke Metaalwarenfabrieken voorheen J. N. Daalderop & Zonen. Tool carrying device for an eccentric press. 3,354,766, 11–28–67, Cl. 83—133.
Daalderop-van Oppenraaij, Maria J. W. E.: *See*—
Daalderop, Wilhelmus H. J. D. 3,354,766.
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Dachs, Karl, H., Brueggemann, and E. Boeck, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Anionic polymerization of lactams with lactam-N-carbamido compounds as activators. 3,304,291, 2–14–67, Cl. 260—78.
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Daco Rubber, Inc.: *See*—
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DaCosta, Harry, to Motorola, Inc. Package for discrete and integrated circuit components. 3,323,022, 5–30–67, Cl. 317—101.
Da Cruz, Edward. Storage case for disk-shaped objects. 3,306,462, 2–28–67, Cl. 211—49.
Dadd, Morris V., to Johnson Products, Inc. Lubricant flow metering means for engine rocker arm lubrication system. 3,358,658, 12–19–67, Cl. 123—90.
Daddona, Domenic J., Jr., to Scovill Mfg. Co. Tack-fastened button. 3,320,644, 5–23–67, Cl. 24—95.
Daddona, Domenic J., Jr., to Scovill Mfg. Co. Lacing device. 3,333,304, 8–1–67, Cl. 24—145.
Daddona, Domenic J., Jr., to Scovill Mfg. Co. Capped eyelet for attaching snap fasteners. 3,333,306, 8–1–67, Cl. 24—216.
Daddona, Domenic J., Jr., to Scovill Mfg. Co. Snap fastener assemblies. 3,355,780, 12–5–67, Cl. 24—208.
Dadin, Louis E., to United States of America, Navy. Battery cell tester. 3,315,140, 4–18–67, Cl. 320—48.
Dadura, James G., J. W. Wisner, Jr., and M. A. Wiley, to Texaco Inc. Lubricating composition. 3,321,402, 5–23–67, Cl. 252—47.5.
Daem, Richard C., N. W. Gray, and B. Young, to Boart & Hard Metal Products S.A. Ltd. Abrasive cutting tools such as saws. 3,353,526, 11–21–67, Cl. 125—15.
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Daggett, Carl O. Readily assembleable kite construction. 3,305,197, 2–21–67, Cl. 244—153.
Daggett, Myron L., and W. H. Krauss, to The Boeing Co. Calculator. 3,333,767, 8–1–67, Cl. 235—61.
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D'Agostino, Michael V., to Radio Corp. of America. Logic arrangement. 3,329,835, 7–4–67, Cl. 307—88.5.
D'Agostino, Richard A. Head covering apparatus for use in streak coloring hair. 3,302,653, 2–7–67, Cl. 132—9.
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Daher, Paul R., to International Business Machines Corp. Error checking system for variable length data. 3,311,879, 3–28–67, Cl. 340—146.1.

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Dahl, Erik O., and T. F. Anderssen, to Elektrokemisk A/S. Process of pelletizing ores. 3,323,901, 6–6–67, Cl. 75—3.

Dahl, Ernest A., Jr. Tape file apparatus. 3,303,848, 2–14–67, Cl. 129—16.

Dahl, Ernest A., Jr. Punch card. 3,307,022, 2–28–67, Cl. 235—61.12.

Dahl, Ernest A., Jr. Card file. 3,333,590, 8–1–67, Cl. 129—16.

Dahl, Ernest A., Jr. Electromagnetic card file. 3,333,591, 8–1–67, Cl. 129—16.

Dahl, Frank L. Supporting closure cover for a container. 3,300,075, 1–24–67, Cl. 215—100.

Dahl, Frank L. Forming tool for forming a supporting means in a thin-sheet top panel portion of a container closure cover. 3,314,272, 4–18–67, Cl. 72—325.

Dahl, John C., to Whirlpool Corp. Rechargeable battery operated vacuum cleaner. 3,340,454, 9–5–67, Cl. 320—22.

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Dahlem, Peter, to Lindemann Maschinenfabrik G.m.b.H. Metal shears. 3,347,122, 10–17–67, Cl. 83—157.

Dahlgren, Harold P. Lithographic dampener with skewed metering roller. 3,343,484, 9–26–67, Cl. 101—148.

Dahlgren, Harold P., to Dahlgren Mfg. Co., Inc. Dampening fluid cooling and circulating apparatus for lithographic offset press dampening device. 3,352,317, 11–14–67, Cl. 137—339.

Dahlgren, Jens K. A., and F. T. Stahl, to Aktiebolaget Flygts Pumpar. Centrifugal pump, particularly a hot water pump. 3,306,220, 2–28–67, Cl. 103—87.

Dahlgren, Jens K. A., and C. E. Sjöstrand, to Aktiebolaget Flygts Pumpar. Hose couplings, hose connections, etc., particularly for submersible pumps. 3,356,390, 12–5–67, Cl. 285—27.

Dahlgren, John A., to General Electric Co. Household refrigerator including automatic icemaker and control means therefor. 3,312,080, 4–4–67, Cl. 62—155.

Dahlgren, John A., and D. W. Jacobus, to General Electric Co. Hydraulic ice maker. 3,306,072, 2–28–67, Cl. 62—351.

Dahlgren, Jons A. Method of superheating steam originating from a steam generator of a pressurized water nuclear reactor. 3,301,762, 1–31–67, Cl. 176—65.

Dahlgren, Jons A., to AB Rosenblads Patenter. Steam generator arrangement heated by reactor water from a nuclear reactor. 3,344,776, 10–3–67, Cl. 122—32.

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Dahlgren, Victor F., and S. K. Tally, to Sanders Associates, Inc. Extensible and retractable flexible circuit cable. 3,300,572, 1–24–67, Cl. 174—69.

Dahlgren, Victor F., S. K. Tally, and T. H. Stearns, to Electro-Mechanisms, Inc., Flexible printed circuitry terminations. 3,325,691, 6–13–67, Cl. 317—101.

Dahlhaus, Hermann, H. G. Nachtrodt, and F. Knuppel. Lighting fixture support for a tubular electric lamp. 3,305,823, 2–21–67, Cl. 339—53.

Dahlin, Rolf, and G. Johansson, to Citograf Aktiebolag. Electromechanical control for embossing machines which rotates font past and back to selected characters. 3,306,416, 2–28–67, Cl. 197—6.6.

Dahlke, Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Flood-lighting luminaire. 3,302,015, 1–31–67, Cl. 240—41.3.

Dahlman, Frederick A., and F. L. Janowsky, to Corning Glass Works. Control system. 3,324,770, 6–13–67, Cl. 91—40.

Dahlman, Per O., and P. M. Thrasher, to International Business Machines Corp. Ideally lossless resonant transfer of energy between bandpass filters of equal bandwidth. 3,359,370, 12–19–67, Cl. 179—15.

Dahlmann, Helmut, to Schering Aktiengesellschaft. Method for obtaining a bright zinc coating by electrodeposition and the bath used therefor. 3,317,412, 5–2–67, Cl. 204—55.

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Dahm, David M., to Burroughs Corp. Memory organization for reducing access time of program repetitions. 3,337,851, 8–22–67, Cl. 340—172.5.

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Dahms, James B., and B. P. Edmonds, to Kalium Chemicals Ltd. System of plural solution mining cavities communicating with a single station. 3,339,979, 9–5–67, Cl. 299—4.

Dahms, James B., and B. P. Edmonds, to Kalium Chemicals Ltd. Solution mining of sloping strata. 3,341,252, 9–12–67, Cl. 299—4.

Dahms, James B., and B. P. Edmonds, to Pittsburgh Plate Glass Co. Establishing communication between bore holes in solution mining. 3,347,595, 10–17–67, Cl. 299—4.

Dahms, Ronald H., E. E. Hardy, and D. A. Popielski, to Monsanto Co. Process for incorporating a liquid additive into a solid thermoplastic polymer. 3,301,813, 1–31–67, Cl 260—34.2.

Dahringer, Donald W., S. Spector, and J. L. Sweet, to Pittsburgh Plate Glass Co. Metal surface of improved bonding quality. 3,322,656, 5–30–67, Cl. 204—38.

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Dall, Paul D., to Crownco of San Diego. Supports for acoustic tile. 3,339,331, 9–5–67, Cl. 52—496.

Dailey, Arthur M., O. F. Boykin, and C. W. Hartman, to CTS Corp. Electrical resistance element and method of making the same. 3,329,526, 7–4–67, Cl. 117—227.

Dailey, Charles L., B. I. Friedman, J. S. Martinez, E. W. Allen, and D. Jortner, to TRW Inc. Direct cycle radioisotope rocket engine. 3,315,471, 4–25–67, Cl. 60—203.

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Dailey, Donald E., to Arkla Industries Inc. Lamp having swing apart access portion. 3,321,619, 5–23–67, Cl. 240—11.

Dailey, Vacell D. Piston structure. 3,354,794, 11–28–67, Cl. 92—243.

Dailey, William T., to Interstate Container Corp. Pallet foot. 3,316,861, 5–2–67, Cl. 108—51.

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Dain, Richard J., to Davy and United Engineering Co. Ltd. Continuous casting mold. 3,295,172, 1–3–67, Cl. 22—57.2.

Dain, Richard J., to Davy and United Engineering Co. Ltd. Multiple Billet continuous casting mold. 3,343,594, 9–26–67, Cl. 164—281.

Daines, Geoffrey A., to Westinghouse Electric Corp. Automatic coil feed for sealed beam lamps. 3,347,414, 10–17–67, Cl. 221—200.

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D'Alba, Anthony R., and R. A. Deibel, to Trico Products Corp. Windshield wiper. 3,301,137, 1–31–67, Cl. 91—219.

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Dale, Charley E. 3,336,051.

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D'Alelio, Gaetano F. Halogen-containing phosphonates. 3,325,569, 6–13–67, Cl. 260—932.

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D'Amico, John J., to Monsanto Co. Controlling vegetation with benzyl thiopyridine oxides. 3,295,946, 1-3-67, Cl. 71—2.5.
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D'Amico, John J., to Monsanto Co. N-halomethylcarbonyl-3-azabicyclo[3.2.2]nonanes. 3,346,564, 10-10-67, Cl. 260—239.
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Peschl, Erwin, Rataj, Danhel, Zmatlik, and Sedlecky. 3,310,964.
Danhel, Antonin, M. Tochacek, and J. Sedlecky, to Elitex Sdruzeni Podniku Textilniko Strojirenstvi. Apparatus for reinforcing a fibrous material. 3,309,901, 3-21-67, Cl. 66—85.
Daniel, Alton E., to Ashland Oil & Refining Co. Densification of carbon black. 3,356,520, 12-5-67, Cl. 106—307.
Daniel, Benjamin S., to Techniservice Corp. Helically convoluted strand. 3,347,036, 10-17-67, Cl. 57—140.
Daniel, Benjamin S., to Techniservice Corp. Process and apparatus for treating stands. 3,358,344, 12-19-67, Cl. 28—1.
Daniel, Benjamin S., to Techniservice Corp. Process and apparatus for crimping strands. 3,358,345, 12-19-67, Cl. 28—1.
Daniel, David W., to National Broach & Machine Co. Serrated gear shaving tool. 3,300,833, 1-31-67, Cl. 29—103.
Daniel, David W., to National Broach & Machine Co. Incremental hob shift mechanism. 3,301,134, 1-31-67, Cl. 90—4.
Daniel, David W., to National Broach & Machine Co. Pot broach. 3,331,115, 7-18-67, Cl. 29—95.1.
Daniel, David W., to National Broach & Machine Co. Method and apparatus for producing a shaving cutter. 3,335,639, 8-15-67, Cl. 90—24.
Daniel, David W., and A. B. Bassoff, to National Broach & Machine Co. Gear shaving machine. 3,319,526, 5-16-67, Cl. 90—1.6.
Daniel, Emily M. Diaper with pleat for forming a feces bag. 3,322,122, 5-30-67, Cl. 128—284.
Daniel, Hermann F., and E. Angele, to Union Special Maschinenfabrik G.m.b.H. Needle plate or throat plate for chain stitch sewing machines. 3,313,259, 4-11-67, Cl. 112—260.
Daniel, James A., Jr. Camera viewfinder. 3,333,521, 8-1-67, Cl. 95—44.
Daniel, Lawrence J.: *See*—
Gaddis, John H. 3,348,871.
Daniel Orifice Fitting Co.: *See*—
Taylor, Joseph W. 3,311,128.
Daniel, Stewart W., and J. O. Bernt, to Milltronics Ltd. Analog computer grinding control. 3,314,614, 4-18-67, Cl. 241—30.
Daniele, Donald T., to Diamond International Corp. Retractable eccentric press. 3,318,762, 5-9-67, Cl. 162—394.
Danieli, Sten H., to Allmanna Svenska Elektriska Aktiebolaget. Marshalling yard retarder. 3,332,519, 7-25-67, Cl. 188—62.
Daniell, Alan F., to Cammell Laird and Co. (Shipbuilders and Engineers) Ltd. Shipbuilding & Engineering Works. Marine platforms and sea stations. 3,339,511, 9-5-67, Cl. 114—5.
Daniels, Albert E.: *See*—
Crawford, Earle D., and Daniels. 3,357,601.
Daniels, C. R., Inc.: *See*—
Abel, Vernon T., and Thomas. 3,316,013.
Daniels, Curtice F., and C. F. Daniels, Jr. Apparatus for stacking sheets of veneer. 3,334,895, 8-8-67, Cl. 271—68.
Daniels, Curtice F., Jr.: *See*—
Daniels, Curtice F., and C. F. Daniels, Jr. 3,334,895.
Daniels, Everett E.: *See*—
Bell, John H., and Daniels. 3,310,920.
Daniels, Franklin W.: *See*—
Moore, Hugh S., and Daniels. 3,335,343.
Daniels, Howard L., to Sperry Rand Corp. Head positioner for a magnetic data storage device. 3,353,167, 11-14-67, Cl. 340—174.1.
Daniels, James M. Soldering iron tip with vented solder capillary passage means. 3,316,384, 4-25-67, Cl. 219—233.
Daniels, John E., to Jeffrey Galion Mfg. Co. Pan conveyor. 3,331,490, 7-18-67, Cl. 198—196.
Daniels, John F.: *See*—
Locke, David R., and Daniels. 3,339,277.
Tolmie, Robert J., Locke, and Daniels. 3,339,276.
Daniels, John F., and D. R. Locke, to Sperry Rand Corp. Electric knife support. 3,300,264, 1-24-67, Cl. 312—279.
Daniels, John F., and D. R. Locke, to Sperry Rand Corp. Oscillating electromagnetic motor. 3,343,011, 9-19-67, Cl. 310—21.

Daniels, Pascal B., and J. V. Morgia, to United Aircraft Corp. Low baked films resulting from sprayable mixtures. 3,312,-651, 4-4-67, Cl. 260—29.6.

Daniels, Patricia: *See*—
Allen, David L. 3,350,136.

Daniels, Paul J. Dispensing cartons for stacked food items. 3,309,206, 3-14-67, Cl. 99—192.

Daniels Plating Barrel & Supply Co.: *See*—
Knechrt, Cyrus L., Sr. 3,328,278.

Daniels, Stanley Z.: *See*—
Averette, Thomas P. 3,358,569.

Daniels, Willey E.: *See*—
Chiddix, Max E., and Daniels. 3,346,566.

Daniels, Wilhelm: *See*—
Hofer, Peter, Daniels, and Oetliker. 3,319,396.

Daniels, William A., Jr.: *See*—
Daniels, William A. and W. A. 3,351,961.

Daniels, William A., and W. A. Daniels, Jr. Bedrail. 3,351,961, 11-14-67, Cl. 5—331.

Danielsen, Sigurd P., E. H. Johnsen, and W. H. E. Widl, to Telefonaktiebolaget L M Ericsson. Level regenerating arrangement for transmission of bipolar signals. 3,304,508, 2-14-67, Cl. 328—164.

Danielson, Alton J.: *See*—
Henrickson, Charles H., Danielson, and Erwin. 3,301,-741.

Danielson, Alton J., and H. A. Berg, to Minnesota Mining and Mfg. Co. Adhesive bonding method and product. 3,331,729, 7-18-67, Cl. 161—162.

Danielson, Evald P. Bumper bracket. 3,342,441, 9-19-67, Cl. 248—42.

Danielson, Harry A. Patient handling device. 3,298,042, 1-17-67, Cl. 5—83.

Danielson, Lincoln V., Jr., to Royal Typewriter Co., Inc. Margin stop regulating mechanism with margin stops mounted on control rails. 3,326,347, 6-20-67, Cl. 197—63.

Danielson, Lorraine T. Cover apparatus or the like. 3,295,-577, 1-3-67, Cl. 150—52.

Danielson, Oliver J., and C. E. Wilcox. Electrician's fish tape puller. 3,302,929, 2-7-67, Cl. 254—134.3.

Danielsson, Henning E., to Arenco Aktiebolag. Transport means and a transversely located discharge conveyor. 3,352,401, 11-14-67, Cl. 198—20.

Danielsson, Paul, to Arenco Aktiebolag. Arrangement with fish handling machines, designed to sort the fish into a definite orientation. 3,315,299, 4-25-67, Cl. 17—2.

Danielsson, Pers A. D. S., and L. H. Jugas. Plant for the hardening of shaped slabs. 3,323,662, 6-6-67, Cl. 214—16.4.

Daniher, William C., and A. C. Billetdeaux, to Mine Safety Appliances Co. Electrical circuit for ventricular defibrillator. 3,359,984, 12-26-67, Cl. 128—419.

Danilewicz, John C.: *See*—
Austin, William C., Danilewicz, and Conover. 3,336,323.

Danin, Alex. Parking space guarding device. 3,316,677, 5-2-67, Cl. 49—254.

Danis, Francois, R. Cloppet, and J. Montanteme, to Societe d'Electro-Chimie d'Electro-metallurgie et des Acieries Electriques d'Ugine. Alloys for nitriding steel and method of nitriding steel. 3,356,493, 12-5-67, Cl. 75—134.

Danis, Louis J., to Eaton Mfg. Co. Method of making engine valve. 3,319,321, 5-16-67, Cl. 29—156.7.

Danis, Peter G., to Crown Zellerbach Corp. Fiberboard container. 3,335,934, 8-15-67, Cl. 229—23.

Danis, Ronald P.: *See*—
Silvers, John P., and Danis. 3,307,827.

Danisch, Edwin A. Insect and liquid fertilizer spray attachment for rotary lawn mowers. 3,334,475, 8-8-67, Cl. 56—25.4.

Danjes, Martin. Apparatus for biological purification of sewage water. 3,330,413, 7-11-67, Cl. 210—195.

Dankelmeier, Wilhelm, and W. Schumacher. Apparatus for dividing hardened piles of stone. 3,353,689, 11-21-67, Cl. 214—6.

Danker, Berend, to North American Philips Co. Inc. Receiver for the reception of AM signals and FM signals with tuning indication. 3,311,838, 3-28-67, Cl. 329—111.

Dankert, Harry S.: *See*—
Sperry, Chester C., and Dankert. 3,332,367.

Danko, Donald M., to Avtron Mfg., Inc. Electronic function generator. 3,354,298, 11-21-67, Cl. 235—197.

Danko, John, and K. D. Jeffries. Clamp. 3,328,023, 6-27-67, Cl. 269—165.

Danlin Mfg. Co.: *See*—
Rizzo, Louis D. 3,300,805.

Danline Mfg. Co.: *See*—
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Danly, Donald E., and G. L. Whitesell, to Monsanto Co. Separation of dibasic acids. 3,329,712, 7-4-67, Cl. 260—537.

Danly, James C., to Danly Machine Specialties, Inc. Ball bearing die set. 3,357,755, 12-12-67, Cl. 308—6.

Danly Machine Specialties, Inc.: *See*—
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Danly, James C. 3,357,755.

Dann, Anthony E.: *See*—
Brown, Michael P., and Dann. 3,299,136.
Thompson, Raymond, Brown, Silver, and Dann. 3,360,390.

Dannatt, Hugh, St. L., to Friden, Inc. Keyboard mechanism having latch means. 3,327,828, 6-27-67, Cl. 197—98.

Dannatt, Hugh St. L., to Sperry Rand Corp. Relay storage units. 3,348,206, 10-17-67, Cl. 340—172.5.

Dannebaum, Rex P. Frequency-dependent color television display. 3,313,881, 4-11-67, Cl. 178—5.4.

Dannelly, Clarence C., and J. R. Caldwell, to Eastman Kodak Co. Process for solution polymerization of acrylonitrile. 3,328,332, 6-27-67, Cl. 260—30.4.

Dannelly, Clarence C., and J. R. Caldwell, to Eastman Kodak Co. Process for solution polymerization of acrylonitrile. 3,328,333, 6-27-67, Cl. 260—30.4.

Dannelly, Clarence C., and J. R. Caldwell, to Eastman Kodak Co. Solution polymerization of acrylonitrile using a catalyst system comprising an oxidizing agent and silver vanadium or rhodium and salts thereof. 3,355,410, 11-28-67, Cl. 260—30.4.

Danner, Eugene G. Multi-receptacle electric outlet and mounting means. 3,297,886, 1-10-67, Cl. 307—112.

Danner, Eugene G. Valve. 3,305,210, 2-21-67, Cl. 251—214.

Dannettell, Alan C., to Yale & Towne, Inc. Industrial truck power circuit. 3,349,309, 10-24-67, Cl. 318—341.

Dannin, Jordan E.: *See*—
Sandler, Stanley R., Tsou, and Dannin. 3,356,616.

Dano Ingeniorforietning og Maskinfabrik Ingenior: *See*—
Hansen, Rune D. 3,323,474.

Dano, Paul K., to United States of America, Navy. Singleshot multivibrator pulse width controlled by repetition rate. 3,304,437, 2-14-67, Cl. 307—88.5.

Dano, Paul K., to United States of America, Navy. XY glow lamp display with switch from igniting to holding voltage. 3,356,898, 12-5-67, Cl. 315—297.

Danon, David, to Yeda Research and Development Co., Ltd. Method for measuring osmotic fragility of red blood corpuscles. 3,300,385, 1-24-67, Cl. 167—84.5.

Danowsky, John A. Semi-resilient arch support. 3,323,232, 6-6-67, Cl. 36—2.5.

Dansi, Franco, to Officine Dansi S.p.A. Fly-wheel magneto with hub incorporated therewith during casting. 3,307,-423, 3-7-67, Cl. 74—572.

Dansk Automatisk Ro-Kontrol A/S: *See*—
Bech, Mogens I. 3,330,242.

D'Antonio, Joseph J., Sr. Drain plug for plastic swimming pools. 3,320,623, 5-23-67, Cl. 4—172.

Danyluke, Ostap, to Bath Iron Works Corp. Impeller for centrifugal pulverizer. 3,346,203, 10-10-67, Cl. 241—275.

Danz, Willi, and W. Teltschik, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acetylene, or acetylene and ethylene, by partial oxidation of hydrocarbons. 3,301,914, 1-31-67, Cl. 260—679.

Danzer, Karl, K.G.: *See*—
Marz, Karl F. 3,334,459.

Danzer Metal Works Co., Inc., The: *See*—
Merckle, Claude O. 3,311,302.
Merckle, Claude O. 3,351,699.

Danzig, Morris J., to Lord Corp. N-nitroso derivatives of aromatic amines and a method for their preparation. 3,309,-373, 3-14-67, Cl. 260—296.

Dapoz, August J., to ACF Industries, Inc. Connector rod linkage. 3,357,274, 12-12-67, Cl. 74—469.

D'Aquin, Esler L. Process for softening the shell portions of crustaceans for edible purposes. 3,346,395, 10-10-67, Cl. 99—111.

Darak, Michael S., Jr., to Rockwell-Standard Corp. Buffing wheel. 3,346,903, 10-17-67, Cl. 15—230.1.

Darby, Joseph R., and P. R. Graham, to Monsanto Co. Metal phosphite and benzophenone stabilized resin composition. 3,300,442, 1-24-67, Cl. 260—45.75.

Darby, Ronald A., to United States of America, Navy. Vibration generation and measurement. 3,320,796, 5-23-67, Cl. 73—67.1.

Darby, Vene L.: *See*—
Boyd, Edward S., Darby, and Hatter. 3,301,993.

Darby, Wilbur J., to Tennessee Valley Authority. Agglomerated carbonaceous phosphate furnace charge of high electrical resistance. 3,335,094, 8-8-67, Cl. 252—188.3.

Darcy, Edward J.: *See*—
Shapiro, Homer O., Pariser, and Darcy. 3,358,238.

D'Arcy, Ellis W. Film stabilizer mechanism for projectors, cameras, and printers. 3,310,636, 3-21-67, Cl. 179—100.2.

Dardarian, Sahag: *See*—
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Dardarian, Sahag, to The Bendix Corp. Off axis adapter for use with a sun sensor device. 3,297,395, 1-10-67, Cl. 350—285.

Dardarian, Sahag, to The Bendix Corp. Photoelectric sun sensor device including an oscillating disc with a plurality of apertures therein. 3,308,299, 3-7-67, Cl. 250—203.

Dardelet, Robert L. Gas pumps and compressors of the liquid ring type. 3,303,991, 2-14-67, Cl. 230—79.

Dardig, Ben V. Heel construction. 3,351,967, 11-14-67, Cl. 12—147.

Dardis, Gilbert W. License holding device. 3,304,642, 2-21-67, Cl. 40—209.

Da Re, Paolo, to Societe d'Exploitation Chimiques et Pharmaceutiques Seceph S.A. Process for preparing 3-methylflavone-8-carboxylic acid. 3,350,411, 10-31-67, Cl. 260—345.2.

Da Re, Paolo, and I. Setnikar, to Societe d'Exploitations Chimiques et Pharmaceutiques Seceph S.A. Ortho-diisopropylaminoethoxybutyrophenone and hydrochloride thereof. 3,335,184, 8-8-67, Cl. 260—570.7.

D'Arena, Ruggero A. Amphibious motor scooter. 3,359,937, 12-26-67, Cl. 115—1.

Dargene, Carl J., to Amerock Corp. Hinge adjusting tool. 3,319,934, 5-16-67, Cl. 254—131.

Dargene, Carl J., to Amerock Corp. Drawer slide. 3,352,617, 11-14-67, Cl. 312—343.

Dargent, E. H., & Co.: *See*—
Daw, Garfield A., and Nielsen. 3,299,435.

D'Argento, Russell N., to Pannett Products Inc. Medicinal composition for treating acne and method of using same. 3,322,626, 5-30-67, Cl. 167—55.

Darigo, Julius, R. E. Dickey, and D. S. Reed, to Remington Arms Co., Inc. Process of forming jacketed projectiles. 3,349,711, 10-31-67, Cl. 102—91.

Darin & Armstrong, Inc.: *See*—
De Bona, John V. M. 3,338,424.
Debona, John V. M. 3,344,931.

Daring, Kenneth W.: *See*—
Billingham, Carroll A., and Daring. 3,326,604.

Dario, Antonio. Process for producing inscriptions and decorations on plates of acrylic resins and derivatives, direct during their formation and plates so produced. 3,342,668, 9-19-67, Cl. 161—242.

Darland, William G., Jr.: *See*—
Clark, Milton B., and Darland. 3,321,286.
Clark, Milton B., and Darland. 3,347,668.
Powers, Robert A., Louzos, and Darland. 3,309,584.

Darley, Henry C. H., to Shell Oil Co. Method for increasing drilling rate. 3,310,125, 3-21-67, Cl. 175—66.

Darley, Reginald, and P. A. Barrett, to General Dynamics Corp. Potentiometer with lift-off wiper. 3,360,756, 12-26-67, Cl. 338—116.

Darling, Gertrude R. and W. V. Telephone guard. 3,301,969, 1-31-67, Cl. 179—189.

Darling, Horace E., to The Foxboro Co. Balanced magnetic amplification and process control apparatus. 3,351,851, 11-7-67, Cl. 323—89.

Darling, Horace E., to The Foxboro Co. Single-core balanceable magnetic amplifier. 3,358,221, 12-12-67, Cl. 323—89.

Darling, L. A., Co: *See*—
Stackhouse, David W. 3,339,324.

Darling, Phillip H., to General Electric Co. Body signal pickup electrode. 3,340,868, 9-12-67, Cl. 128—2.06.

Darling, William V.: *See*—
Darling, Gertrude R. and W. V. 3,301,969.

Darlinger, Edward P., to The Babcock & Wilcox Co. Tube fitting arrangement for furnace bottom. 3,354,870, 11-28-67, Cl. 122—235.

Darlington, Henry S., Jr., to A. H. Wirz, Inc. Cap carried axial plug for a fluid dispenser. 3,308,999, 3-14-67, Cl. 222—546.

Darlington, Sidney, to Bell Telephone Laboratories, Inc. Sampled frequency modulation. 3,299,357, 1-17-67, Cl. 325—349.

Darlington, Sidney, to Bell Telephone Laboratories Inc. Reactive element amplifiers. 3,327,233, 6-20-67, Cl. 330—7.

Darlington, Sidney, to Bell Telephone Laboratories, Inc. Apparatus for interchanging time and frequency signals. 3,328,528, 6-27-67, Cl. 179—15.

Darlington, Walter A.: *See*—
Hodson, Phillip H., and Darlington. 3,334,021.
O'Connor, Richard J., Van Deren, and Darlington. 3,298,910.

Darlite Corp.: *See*—
Rosen, Carl G. A. 3,358,349.

Darnall, John C.: *See*—
Murchison, John R., Darnall, and Brassell. 3,326,353.

Darnell Corp., Ltd.: *See*—
Darnell, William L. 3,298,467.

Darnell, James R.: *See*—
Martini, Richard W., and Darnell. 3,345,197.

Darnell, Rex C., to Michigan Dynamics, Inc. Purifier. 3,344,-927, 10-3-67, Cl. 210—360.

Darnell, Walter T., C. F. Fisher, and R. E. Maier, to E. I. du pont de nemours and Co. Monomeric ε-caprolactam compositions. 3,309,343, 3-14-67, Cl. 260—78.

Darnell, William L., to Darnell Corp., Ltd. Caster brake. 3,298,467, 1-17-67, Cl. 188—29.

Darnois, Andre, to Societe Generale du Vide-SOGEV. Sealed coaxial connector. 3,303,268, 2-7-67, Cl. 174—88.

Darpinian, Ernest V. Preservation of cut flowers. 3,328,157, 6-27-67, Cl. 71—2.7.

Darr, Herman. Frost prevention device. 3,314,191, 4-18-67, Cl. 47—2.

Darr, Ralph M.: *See*—
Werner, Frank D., Darr, Edberg, and Petersen. 3,313,-046.

Darr, Wayne B. Static balancing method. 3,352,732, 11-14-67, Cl. 156—75.

Darrah, James M., Jr. Movable partitions with pressure plate. 3,340,655, 9-12-67, Cl. 52—122.

Darras, Raymond: *See*—
Baque, Pierre, Darras, and Koch. 3,352,004.
Caillat, Roger, Darras, Leclercq, Salesse, and Vachet. 3,334,997.

Darrell, George H. Rotary trap magazine with two-stage target feed. 3,304,928, 2-21-67, Cl. 124—47.

D'Arrigo Bros. Co. of California: *See*—
Verardo, Riccardo. 3,320,989.

Darrol Co., Inc.: *See*—
Ganz, Daniel M., and Mahler. 3,298,538.

Darrow, Kenneth A., to General Electric Co. Method for the production of diamond compact abrasives. 3,306,720, 2-28-67, Cl. 51—309.

Darrow, Kenneth A., and E. H. Hull, to General Electric Co. Preparation of elongated needle-like diamond having electrically conductive properties. 3,310,501, 3-21-67, Cl. 252—502.

Darrow, Kenneth A., and R. H. Wentorf, Jr., to General Electric Co. Process for doping a diamond in a gaseous electrical discharge. 3,317,354, 5-2-67, Cl. 148—1.5.

Darrow, Kenneth A., and E. H. Hull, to General Electric Co. Electrical discharge cleaning and coating process. 3,325,393, 6-13-67, Cl. 204—192.

Darrow, Turner H. Minnow dipper. 3,354,575, 11-28-67, Cl. 43—56.

Darrow, Wendell L., and C. Hsiao, to FMC Corp. Refining of ferrophos. 3,305,355, 2-21-67, Cl. 75—132.

Darst, Robert J., to W. A. Sheaffer Pen Co. Marking implement. 3,356,440, 12-5-67, Cl. 15—517.

Dart Mfg. Co.: *See*—
Dart, William A. 3,355,530.

Dart, William A., to Dart Mfg. Co. Method for forming foamed plastic article. 3,355,530, 11-28-67, Cl. 264—51.

Darter, Cederick U., and P. L. Clar, to Motorola, Inc. Semiconductor housing. 3,339,127, 8-29-67, Cl. 317—234.

Darvie, Bernard A. Detachable ornamental cover for a shirt button. 3,343,230, 9-26-67, Cl. 24—113.

Dary and United Engineering Co. Ltd.: *See*—
Harrison, James A., and Quartermain. 3,322,961.

Daryl Industries, Inc.: *See*—
Miller, Donald L. 3,341,973.

Das, Dilip K., and G. Freedman, to Raytheon Co. Prevention of hydrogen-embrittlement in oxygen-bearing copper. 3,352,-667, 11-14-67, Cl. 75—153.

Dasa Corp.: *See*—
Kuehnle, Manfred R. 3,336,446.
Lockwood, George S., Jr., Arciprete, Greene, Moseley, and Rothery. 3,321,584.

Dascanio, Adolfo, to Southwest Welding & Mfg. Co. Transportable water tower. 3,352,461, 11-14-67, Cl. 222—160.

Das Chaklader, Asoke C., and L. G. McKenzi, to Canadian Patents and Development Ltd. Process for manufacturing clay products. 3,348,957, 10-24-67, Cl. 106—67.

D'Ascoli, Ralph G.: *See*—
Eich, Edward D., and D'Ascoli. 3,358,071.
O'Mara, Joseph B., and D'Ascoli. 3,355,543.

Dascotte, Jean, to International Standard Electric Corp. Data transmitter for varying alternate zero-crossings of a periodic A.C. wave about the mid-period point. 3,325,595, 6-13-67, Cl. 178—67.

Dasek, Jaroslav: *See*—
Culik, Karel, Dasek, Palkoska, and Pelzbauer. 3,349,127.

Dash, Evelyn M.: *See*—
Dash, William C., and Taft. 3,316,130.

Dash, William C., deceased (by E. M. Dash, executrix), and E. A. Taft, Jr., to General Electric Co. Epitaxial growth of semiconductor devices. 3,316,130, 4-25-67, Cl. 148—175.

Dasher, George F., and F. Presant, to Clairol Inc. Hair treating compositions containing a saturated hydrocarbon as a moisture-barrier material. 3,346,457, 10-10-67, Cl. 167—87.1.

Dashio, John C., 33⅓ to W. B. Jaspert. Combined wall and awning structure. 3,341,180, 9-12-67, Cl. 256—1.

Dashio, John C., 33⅓ to W. B. Jaspert. Combined wall and awning structure. 3,346,238, 10-10-67, Cl. 256—24.

Da Silva, Herman, to De Staat der Nederlanden, ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Telecommunication system for producing service signals. 3,310,627, 3-21-67, Cl. 178—113.

Da Silva, Herman, to De Staat der nederlanden, ten Deze vertegeniwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Error correcting tape telecommunication system. 3,317,667, 5-2-67, Cl. 178—23.

Da Silva, Herman, to De Stadt Nederlanden ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen Telegrafie en Telefonie. Simplex telegraph system with break-in facility. 3,321,573, 5-23-67, Cl. 178—2.

Da Silva Frias, Jose: *See*—
Velazquez, Carlos, and Da Silva Frias. 3,354,843.

Da Silver Valerio, Fernando. Recorder actuated fluid delivery system. 3,329,312, 7-4-67, Cl. 222—30.

Dasovic, Steve Z., and H. G. R. Wolf. Plastic cabinet. 3,301,-622, 1-31-67, Cl. 312—245.

Daspit, Ronald A. Pipe coupling for high-pressure gas and oil underwater pipe lines, and process of installing same. 3,352,575, 11-14-67, Cl. 285—45.

Dasse, Lester F., to Lambert Brake Corp. Beryllium containing friction element. 3,306,401, 2-28-67, Cl. 188—251.

Dassesse, Pierre, and R. Dechenne, to Solvay & Cie. Polymerization of propylene in the presence of a catalyst consisting of the reaction product of a transition metal halide with sulfur and an organoaluminum compound. 3,326,878, 6-20-67, Cl. 260—93.7.

Dassesse, Pierre, and R. Dechenne, to Solvay & Cie. Process and catalyst for the polymerization of olefins. 3,356,668, 12-5-67, Cl. 260—93.7.

Dassinger, Carl C., and R. L. Hageny. Set of interchangeable utility apparatuses. 3,350,797, 11-7-67, Cl. 37—53.

Dassler, Adolf. Sport shoe, especially for football. 3,341,952, 9–19–67, Cl. 36—2.5.

Dastoli, Joseph, W. Dehnel, and L. J. Halepas. Separable aircraft. 3,298,633, 1–17–67, Cl. 244—2.

Data Corp.: *See*—
Cahill, Lysle D. 3,307,020.

Data Instruments Division: *See*—
Kozak, Andrew F. 3,304,994.

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Gelardi, Anthony L., and Conway. 3,342,435.
Lyman, George F. 3,307,689.
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Palson, Richard C. J., Gelardi, and Mathus. 3,349,898.

Data Products Corp.: *See*—
Koskie, Wallace W. 3,305,976.
Mogtader, Charles S. 3,314,057.

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Zeller, David A., Jr., and Runyan. 3,339,192.

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Datamatics International, Inc.: *See*—
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Date, Kazuo H., to McGraw-Edison Co. Repeating circuit interrupter. 3,309,573, 3–14–67, Cl. 317—22.

Date, Raghunath V.: *See*—
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Burne, Frederick A., and Date. 3,339,260.

Date, Tasuku, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Carburetor. 3,329,413, 7–4–67, Cl. 261—41.

Date, Tasuku, and R. Kajikawa, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Carburetor. 3,342,463, 9–19–67, Cl. 261—44.

Dates, Harold F., and J. K. Davis, to Corning Glass Works. 3,331,702, 7–18–67, Cl. 117—211.

Datow, Joachim: *See*—
Koenig, Karl-Heinz, Datow, Pommer, Jung, and Scholz. 3,301,902.

Datron Systems, Inc.: *See*—
Stewart, Alfred W. 3,360,259.

Datt, Paul L.: *See*—
Schmitt, David L., and Datt. 3,302,446.

Dattilo, Anthony W.: *See*—
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Datwyler, Walter F., Jr.: *See*—
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Datwyler, Walter F., Jr., E. A. Mayer, and L. B. Taplin, to The Bendix Corp. Fluid device. 3,351,080, 11–7–67, Cl. 137—81.5.

Dau, John J. Dimensionally stable laminated wooden work surface. 3,314,206, 4–18–67, Cl. 52—415.

Daubenberger, Charles J., to Daco Rubber, Inc. Press molding apparatus. 3,343,217, 9–26–67, Cl. 18—16.

Daubert Chemical Co.: *See*—
Wollek, Raymond F., and Guerra. 3,313,635.

Daubert, Henry C., Jr.: *See*—
Barkalow, Clare E., and Daubert. 3,318,161.

Daubitz, Walter F., to Oxford Precision, Inc. Collet indexing and grinding fixture. 3,298,141, 1–17–67, Cl. 51—217.

Daubitz, Walter F., to Oxford Precision, Inc. Work holding and centering means. 3,315,419, 4–25–67, Cl. 51—237.

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Daubresse, Guy, B. Froman, and J. Jordi, to Babcock & Wilcox, Ltd. Ultrasonic testing apparatus. 3,323,354, 6–6–67, Cl. 73—67.8.

Dauby, Robert, and P. Teyssie, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for the stereospecific polymerization of butadiene in an aqueous emulsion. 3,303,156, 2–7–67, Cl. 260—29.7.

Dauchert, Eugene F., to E. I. du Pont de Nemours and Co. Apparatus for applying liquid to moving continuous filament yarn. 3,336,901, 8–22–67, Cl. 118—411.

Daüchi Selyaku Co., Ltd.: *See*—
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D'Audiffret, Adolphe A., and J. J. Tomcik, to Aqua Ran Water Supplies, Inc. Apparatus for cleaning infiltration type water collector. 3,312,284, 4–4–67, Cl. 166—171.

Dauenbaugh, Robert L., and R. K. Unter, to National Lock Co. Pop-out handle and lock assembly. 3,302,434, 2–7–67, Cl. 70—208.

Dauenhauer, Florian F., and T. H. Frazer. Hop picking machine. 3,316,916, 5–2–67, Cl. 130—30.

Dauer, David P., ½ to J. C. and V. C. Hendley. Silo distributor. 3,310,184, 3–21–67, Cl. 214—17.

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Daufenbach, Gottfried, to Spinnfaser Aktiengesellschaft. Vacuum drum dryer combination with fiber guiding devices. 3,332,153, 7–25–67, Cl. 34—115.

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Dauger, Alan B., and J. M. Yarlott, to J. M. Yarlott. Pressure transducer. 3,302,080, 1–31–67, Cl. 317—246.

Daugherty, Frank J. Pipe tapping machines. 3,357,445, 12–12–67, Cl. 137—318.

Daugherty, Frank Z., to Ametek, Inc. Rotary actuator. 3,332,303, 7–25–67, Cl. 74—801.

Daugherty, Hugh L. Chalk board clip. 3,337,926, 8–29–67, Cl. 24—84.

Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Machine tool with automatic tool changing apparatus. 3,300,856, 1–31–67, Cl. 29—568.

Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Facing head attachment and drive mechanism therefor. 3,311,003, 3–28–67, Cl. 82—2.

Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Rotary actuator power drawbolt for machine tool spindles. 3,311,024, 3–28–67, Cl. 90—11.

Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Enclosure for automatic tool changer and machine tool. 3,355,799, 12–5–67, Cl. 29—568.

Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Machine tool headstock. 3,355,800, 12–5–67, Cl. 29—568.

Daughters, Harold H., to Kaiser Steel Corp. Method for identifying selective sections of a metallic material. 3,296,689, 1–10–67, Cl. 29—407.

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Daul, Robert M., to Stackpole Carbon Co. Slide switch indexing device including spring detent means. 3,355,565, 11–28–67, Cl. 200—166.

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Daumiller, Guenther, H. Wilhelm, and E. Wegner, to Badisch Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polyurethane foams. 3,314,901, 4–18–67, Cl. 260—2.5.

Daunt, John G.: *See*—
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Daunt, John G., to Malaker Laboratories, Inc. Dynamic flash production of hydrogen slush. 3,354,662, 11–28–67, Cl. 62—10.

Dauphinee, Thomas M., to National Research Council. Direct reading potentiometer. 3,297,939, 1–10–67, Cl. 323—43.5.

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Rettig, August, Schmidts, and Daur. 3,321,563.

Dauser, William C. Color control method. 3,322,025, 5–30–67, Cl. 88—14.

Dauser, William C. Multi-color lamp. 3,345,509, 10–3–67, Cl. 240—20.

Dautch, Lewis B., to The Birge Co., Inc. Wallpaper sample book holder. 3,315,936, 4–25–67, Cl. 248—460.

Dautreppe, Daniel, E. Friess, and A. Salvi, to Commissariat a l'Energie Atomique. Apparatus for measurement of the characteristics of internal friction. 3,313,148, 4–11–67, Cl. 73—99.

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Davé, Sharad M., to Eaton Yale & Towne Inc. Control mechanism. 3,359,042, 12–19–67, Cl. 303—21.

Davee, Robert L., and D. V. Louzos, to Union Carbide Corp. Cylindrical rechargeable battery having expanded metal grid with bond joints being bent flatwise. 3,310,437, 3–21–67, Cl. 136—13.

D'Avella, Benjamin A. Radiation-proof strip for wall and ceiling panel having a groove formed by two bifurcations. 3,299,270, 1–17–67, Cl. 250—108.

Davenport, David L., to D & G Plastics Co. Toggle ring tube coupling. 3,312,484, 4–4–67, Cl. 285—340.

Davenport, Donald A., and R. Schubach, to Avtron Mfg., Inc. Low rise time surge testing apparatus. 3,328,683, 6–27–67, Cl. 324—51.

Davenport, Edward D. Scroll type reference guide. 3,350,806, 11–7–67, Cl. 40—336.

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Wanless, William F., and Davenport. 3,304,060.

Davenport, John E., and F. Carroll, to Tennessee Valley Authority. Phosphoric acid manufacture. 3,326,635, 6–20–67, Cl. 23—165.

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Davenport, Thomas I.: *See*—
Greer, Thomas J., Jr., and Davenport. 3,343,281.

Davenport, William H., to Chase Brass and Copper Co., Inc. Recovery of rhenium values. 3,348,942, 10–24–67, Cl. 75—62.

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Ent, Girard W., Davenport, and McDonald. 3,327,884.

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Davey, Donald G., and W. A. Stutske, to Owens-Illinois, Inc. Molten glass feeder tube centering and drive. 3,334,986, 8–8–67, Cl. 65—324.

Davey, Frederick P.: *See*—
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Davey, Gerald F., to Riley Stoker Corp. Furnace wall. 3,299,597, 1–24–67, Cl. 52—483.

Davey, Joseph: *See*—
Tapp Geoffrey E. E., and Davey. 3,301,572.

Davey, Richard G.: *See*—
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Davey, Thomas R. A., to Metallurgical Processes Ltd. and The National Smelting Co. Ltd. Copper drossing. 3,317,311, 5–2–67, Cl. 75—78.

Davey, Thomas R. A., to Metallurgical Processes Ltd. and Imperial Smelting Corp. (N.S.C.) Ltd., d.b.a. Metallurgical Development Co. Dezincing of lead. 3,360,362, 12–26–67, Cl. 75—78.

Daviau, Jerome G. Vacuum evaporator of the ejector pump type. 3,352,348, 11–14–67, Cl. 159—5.

David, Charles A. M., to Compagnie des Machines Bull (Societe Anonyme). Storage circuit employing tunnel diode, transistor and input transformer connected in series. 3,300,657, 1–24–67, Cl. 307—88.5.

David, Clarence V., V. C. Kamm, and J. R. Wilkinson, to The Bendix Corp. Apparatus for driving a plurality of display tubes. 3,343,032, 9–19–67, Cl. 315—84.6.

David, Claude L. Saw blade attaching means. 3,329,186, 7–4–67, Cl. 145—33.

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Nichols, Victor L., and Garshelis. 3,357,649.

David, David J. Baseball stance and stride practice plate. 3,342,487, 9–19–67, Cl. 273—26.

David, Frank A., to Owens-Illinois Inc. Shipping reel. 3,307,802, 3–7–67, Cl. 242—118.8.

David, George. Portable space flood alarm. 3,310,795, 3–21–67, Cl. 340—244.

David, Paul: *See*—
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David, Paul A., and H. L. Lenz. Unitized stamp set. 3,311,227, 3–28–67, Cl. 206—47.

David, Robert J., to The American Grandby Co. Hydropneumatic tank float. 3,357,591, 12–12–67, Cl. 220—26.

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Beck, Roland D., David, Davis, Doyle, and Geiger. 3,358,915.

Davidoff, Charles. Silver recovery process. 3,311,468, 3–28–67, Cl. 75—108.

Davidoff, Frank: *See*—
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Davidovic, Vlastimir. Regeneratively cooled gas turbines. 3,302,397, 2–7–67, Cl. 60—39.16.

Davidovits, Paul: *See*—
Novick, Robert, and Davidovits. 3,304,516.

Davidowich, George: *See*—
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Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Hydrogen-embrittlement-inhibition with propargyl benzylamine and alkyl pyridines. 3,335,089, 8–8–67, Cl. 252—148.

Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Corrosion inhibition with propargyl benzylamine. 3,335,090, 8–8–67, Cl. 252—148.

Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Hydrogen-embrittlement-inhibition with propargyl-benzylamine and ethylene oxide adduct of phenylbutynol. 3,337,469, 8–22–67, Cl. 252—148.

Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Corrosion inhibition with propargyl cyclohexylamine. 3,337,470, 8–22–67, Cl. 252—148.

Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Hydrogen-embrittlement-inhibition with 1-ethynylcyclohexanol-1. 3,340,197, 9–5–67, Cl. 252—146.

Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Hydrogen-embrittlement-inhibition with propargyl benzylamine and 1-chloro-1-hexyn-3-ol. 3,340,198, 9–5–67, Cl. 252—148.

Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Corrosion inhibition with morpholinopropyne. 3,345,299, 10–3–67, Cl. 252—148.

Davidowitz, Herman and J. Method for manufacture of neckties. 3,358,291, 12–19–67, Cl. 2—146.

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Davids, Hugh H., and W. R. Laitinen, to General Electric Co. AFC disabling system operative by reducing the D.C. discriminator output to zero. 3,343,092, 9–19–67, Cl. 325—346.

Davids, John H.: *See*—
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Davidse, Jan, to North American Philips Co., Inc. Circuit arrangement for use in a colour television receiver for producing three colour signals. 3,328,517, 6–27–67, Cl. 178—5.4.

Davidse, Jan, to North American Philips Co., Inc. Circuit arrangement for use in colour television receivers. 3,333,059, 7–25–67, Cl. 178—5.4.

Davidson, Alastair R., to Reed Paper Group Ltd. Gutter support brackets. 3,331,574, 7–18–67, Cl. 248—48.2.

Davidson, Andrew D., and E. D. Robertson. Clear plastic fuel manifold. 3,331,392, 7–18–67, Cl. 137—559.

Davidson, Charles R., Jr.: *See*—
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Wheeler, Robert W., and Davidson. 3,341,313.

Davidson, Clarence O. Nut gathering apparatus. 3,308,613. 3–14–67, Cl. 56—328.

Davidson, Clarence O. Conveyor for fragile articles. 3,332,537, 7–25–67, Cl. 198—201.

Davidson, Donald E., to Davidson Optronics, Inc. Optical instrument for measuring relative angular displacement of two objects about a twist axis. 3,302,512, 2–7–67, Cl. 88—14.

Davidson, Eugene M., to Hudson Engineering Corp. Method and apparatus for the manufacture of foamed plastic tubing. 3,353,244, 11–21–67, Cl. 264—51.

Davidson, Frank S.: *See*—
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Davidson, Gareth M., and F. Meyer, to American Bosch Arma Corp. Accelerometer. 3,329,027, 7–4–67, Cl. 73—517.

Davidson, Hugh W., and H. H. W. Losty, to The General Electric Co. Ltd. Electrostatic clutches. 3,343,635, 9–26–67, Cl. 192—21.5.

Davidson, Ian, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,322,639, 5–30–67, Cl. 176—44.

Davidson, Jack M., to General Motors Corp. Control knob for washing machines and other domestic appliances. 3,342,082, 9–19–67, Cl. 74—553.

Davidson, James R., and R. M. Pierce, to Xerox Corp. Automatic toner control system. 3,348,523, 10–24–67, Cl. 118—7.

Davidson, James W.: *See*—
Maurer, John L., and Davidson. 3,333,036.

Davidson, John L., to Duralast Containers Ltd. Aluminum pressure vessel. 3,307,730, 3–7–67, Cl. 220—3.

Davidson, Julian S. Self-kindling charcoal briquets. 3,352,651, 11–14–67, Cl. 44—10.

Davidson, Karl A.: *See*—
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Davidson, Kenneth H.: *See*—
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Davidson, Leo R. and R. L. Machine for mechanically finishing workpieces. 3,341,979, 9–19–67, Cl. 51—164.

Davidson, Louis. Load-bearing industrial pallet. 3,351,028, 11–7–67, Cl. 108—56.

Davidson, Louis H. Head rest. 3,346,934, 10–17–67, Cl. 29—91.1.

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Davidson, Ralph L., and S. A. Schmidt, to Curtis & Marble Machine Co. Apparatus for preparation of textile fabrics for processing. 3,322,363, 5–30–67, Cl. 242—58.1.

Davidson, Ralph L., and E. F. Kurtz, Jr., to Curtis & Marble Machine Co. Rolling head. 3,334,834, 8–8–67, Cl. 242—65.

Davidson, Raymond D.: *See*—
Woodward, Paul E., Davidson, and Zingg. 3,336,982.

Davidson, Richard L.: *See*—
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Davidson, Robert E. Transportation system and method 3,352,438, 11–14–67, Cl. 214—38.

Davidson, Robert S.: *See*—
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Reynolds, William G., and Davidson. 3,338,462.

Davidson, Robert W., to American Machine & Foundry Co. Cargo restraining methods and devices. 3,312,181, 4–4–67, Cl. 105—369.

Davidson, Robert W., to American Machine & Foundry Co. Cargo handling apparatus. 3,334,718, 8–8–67, Cl. 193—38.

Davidson Rubber Co., Inc.: *See*—
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Davidson, Thomas L., and K. D. Bixler, to Diamond International Corp. Display and packaging tray and blank for producing the same. 3,330,465, 7–11–67, Cl. 229—34.

Davidson Voigt Engineering Corp.: *See*—
Voigt, Wallace D., and Davidson. 3,328,904.

Davidson, William E., to General Electric Co. Electric fire starter. 3,334,214, 8–1–67, Cl. 219—261.

Davie, William R., to United States Steel Corp. Maleic anhydride-tertiary amine adduct foaming agent. 3,298,971, 1–17–67, Cl. 260—2.5.

Davie, William R., to United States Steel Corp. Self-extinguishing pitch foams. 3,353,978, 11–21–67, Cl. 106—275.

Davies, Alwyn G., to M & T Chemicals, Inc. Triorganotin carbodiimides and isoureas and the preparation thereof. 3,347,890, 10–17–67, Cl. 260—429.7.

Davies, Beaumont J., to George Richards & Co., Ltd. Motor control system having a counter responsive to a modulated pulse train. 3,320,501, 5–16–67, Cl. 318—18.

Davies, Ben: *See*—
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Davies, Ben, to Harbison-Walker Refractories Co. Degree of direct bonding in brick of magnesia and chrome ore. 3,321,-323, 5–23–67, Cl. 106—59.

Davies, Ben, and D. C. Hanson, to Harbison-Walker Refractories Co. Glass tank structure with a regenerator chamber. 3,326,541, 6–20–67, Cl. 263—15.

Davies, Charles. Air diffuser. 3,308,745, 3–14–67, Cl. 98—40.

Davies, David O., D. M. Anley, and C. H. Briggs, to Rolls-Royce Ltd. Gas turbine lubrication systems. 3,296,793, 1–10–67, Cl. 60—39.08.

Davies, David O., and A. Parker, to Rolls-Royce Ltd. Fuel purging system for gas turbine engines. 3,344,602, 10–3–67, Cl. 60—39.28.

Davies, Duncan S., and D. C. Jones, to Imperial Chemical Industries Ltd. Process for the reductive dimerization of acrylonitrile. 3,356,708, 12–5–67, Cl. 260—465.8.

Davies, Evan D. Water saving device for water closets. 3,344,439, 10–3–67, Cl. 4—40.

Davies, Geoffrey G. J.: *See*—
Nelson, Philip H., and Davies. 3,331,595.

Davies, Geoffrey N.: *See*—
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Davies, Glyn T., to Rolls-Royce Ltd. Aerofoil blade for use in a hot fluid stream. 3,315,941, 4–25–67, Cl. 253—77.

Davies, Ivor J., to Teleflex Products Ltd. Safety harnesses. 3,321,246, 5–23–67, Cl. 297—389.

Davies, Ivor J., to Teleflex Products Ltd. Safety harnesses for vehicle occupants. 3,351,382, 11–7–67, Cl. 297—389.

Davies, Ivor J., and J. E. Humby, to Teleflex Products Ltd. Safety harnesses. 3,321,244, 5–23–67, Cl. 297—388.

Davies, Miles A., to Columbia Machine, Inc. Concrete block forming machine with pneumatic vibration. 3,343,239, 9–26–67, Cl. 25—41.

Davies, Paul M., to TRW Inc. Self searching memory. 3,296,599, 1–3–67, Cl. 340—173.1

Davies, Paul M., to TRW Inc. Associative computer. 3,320,-594, 5–16–67, Cl. 340—172.5.

Davies, Phillips S., ¼ to L. Baxter. Tissue dispensing and disposal device. 3,331,498, 7–18–67, Cl. 206—57.

Davies, Phineas: *See*—
Dowden, Dennis A., and Davies. 3,334,055.

Davies, Phineas, and F. F. Snowdon, to Imperial Chemical Industries Ltd. Production of oxygenated hydrocarbons. 3,326,956, 6–20–67, Cl. 260—449.5.

Davies, Raymond D., to Crown Zellerbach Canada Ltd. Method of determining the moisture content of thin porous materials. 3,350,789, 11–7–67, Cl. 34—30.

Davies, Richard G.: *See*—
Richman, Roger H., and Davies. 3,336,170.

Davies, Robert W., to The Molins Organisation Ltd. Mechanism for producing and applying tear strips. 3,354,019, 11–21–67, Cl. 156—519.

Davies, Roy E., to Leeds & Northrup Co. Expendable immersion temperature responsive unit. 3,298,874, 1–17–67, Cl. 136—232.

Davies, Stanley, to British Nylon Spinners Ltd. Yarn stringing up process. 3,323,191, 6–6–67, Cl. 28—72.

Davies, Theodore E., to The North American Mfg. Co. Method and apparatus for scale free heating of metals. 3,331,594, 7–18–67, Cl. 263—15.

Davies, Trevor, N. Fletcher, and J. E. McIntyre, to Imperial Chemical Industries Ltd. Process for manufacturing linear fiber and film forming polyesters by polycondensation in the presence of a titanium alkoxide catalyst and a germanium compound. 3,346,541, 10–10–67, Cl. 260—75.

Davies, William A. M., to Biorex Laboratories Ltd. Derivatives of glycyrrhetinic acid and process for the preparation thereof. 3,311,613, 3–28–67, Cl. 260—239.3.

Davies, William J., R. Allen, and J. K. Rhodes, to Rolls-Royce Ltd. Gas turbine lubrication. 3,321,910, 5–30–67, Cl. 60—39.08.

Davignon, Roland E. Ski scooter. 3,328,045, 6–27–67, Cl. 280—21.

Davila, Eugene. Method of packaging purified graphite and the package formed thereby. 3,308,943, 3–14–67, Cl. 206—84.

Davin, Donald R., to Blaw-Knox Co. Bituminous paving apparatus. 3,316,821, 5–2–67, Cl. 94—46.

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Davis, Alonza J., to United States of America, National Aeronautics and Space Administration. Fiber optic vibration transducer and analyzer. 3,310,978, 3–28–67, Cl. 73—70.2.

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Beck, Roland D., David, Davis, Doyle, and Geiger. 3,358,-915.

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Davis, Bayard C., A. Singer, and M. T. Chapman, Jr., to Continental Sensing, Inc. Method of making shielded conductors. 3,353,260, 11–21–67, Cl. 29—573.

Davis, Bill, to United States of America, Air Force. Polysulfonamide chemical intermediates for adhesives and resins. 3,330,865, 7–11–67, Cl. 260—556.

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Davis, Carey L. Tractor having hydraulic drive and controls. 3,324,964, 6–13–67, Cl. 180—6.48.

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Davis, Charles J., to Daco Products, Inc. Flower holder. 3,336,-697, 8–22–67, Cl. 47—41.12.

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Davis, Claude R. Golf cart umbrella attachment. 3,304,035, 2–14–67, Cl. 248—40.

Davis, Claude R. Golf cart umbrella mounting attachment. 3,304,036, 2–14–67, Cl. 248—41.

Davis, Daniel H., Jr., to Burroughs Corp. Document stacking apparatus. 3,325,165, 6–13–67, Cl. 271—71.

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Davis, George H., to United Aircraft Corp. Fuel cell system for the automatic control of cell temperature. 3,296,029. 1–3–67, Cl. 136—86.

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Davis, John V., L. J. Minbiole, Jr., and E. H. Zinke, to The Udylite Corp. Conveying apparatus incorporating rotary transfer mechanism. 3,307,720, 3–7–67, Cl. 214—89.

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Davis, Lynn N., to United Steel and Wire Co. Nesting shopping carrier. 3,353,836, 11–21–67, Cl. 280—33.99.

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Davis, Richard M. Teaching apparatus. 3,324,577, 6–13–67, Cl. 35—48.

Davis, Richard M. Teaching apparatus. 3,344,536, 10–3–67, Cl. 35—48.

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Deladerriere, Andre. Electric alarm release and timing device. 3,339,034, 8–29–67, Cl. 200—38.

Delafosse, Jacques, J. Herenguel, and R. Hourquin, to Commissariat a l'Energie Atomique. Process for selectively anodically dissolving copper from zirconium. 3,334,029, 8–1–67, Cl. 204—32.

Delafrange, Kenneth M. Electrical connector with a helical conductor overload circuit breaker. 3,300,607, 1–24–67, Cl. 200—115.5.

Delafrange, Kenneth M. Plug connector thermally responsive overload circuit breaker. 3,321,596, 5–23–67, Cl. 200—116.

De la Garza, Jesus. Key-operated non-drip valve. 3,340,891, 9–12–67, Cl. 137—384.2.

Delahunt, John F., to Esso Research and Engineering Co. Cathode for anodic protection system. 3,317,415, 5–2–67, Cl. 204—196.

De Lajarte, Stephane D., to Compagnie de Saint Gobain. Glass compositions. 3,305,371, 2–21–67, Cl. 106—52.

De Lajarte, Stephane D., and M. Bourgeaux, to Compagnie de Saint-Gobain. Method and apparatus for conveying a glass sheet on a molten metal bath. 3,326,653, 6–20–67, Cl. 65—99.

Delalande, Michel. Carbalkyloxy-piperazine derivatives. 3,331,-842, 7–18–67, Cl. 260—268.

De Lallo, George M. Extended range hydraulic transmission. 3,306,129, 2–28–67, Cl. 74—687.

Delaloye, Jacques R. O. On-load self-starting synchronous motor. 3,320,449, 5–16–67, Cl. 310—156.

De La Mare, Harold E., to Shell Oil Co. Polymerization catalysts and process. 3,300,463, 1–24–67, Cl. 260—93.7.

De La Mare, Harold E., to Shell Oil Co. Preparation of sulfur-vulcanizable olefin copolymer elastomers. 3,329,662, 7–4–67, Cl. 260—88.2.

De La Mare, Harold E., and D. B. Todd, to Shell Oil Co. Process for molecular weight reduction of diene polymers. 3,313,793, 4–11–67, Cl. 260—94.7.

De La Motte, Pierre, to The U. S. Baird Corp. Adjustably biased separable pressure assembly. 3,338,495, 8–29–67, Cl. 226—177.

De Land, Charles L., to Columbian Carbon Co. Method and apparatus for the manufacture of carbon black. 3,301,639, 1–31–67, Cl. 23—209.4.

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Barton, Bernard C., Nudenberg, and Delaney. 3,357,960.

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Son, Angelo J., and Delaney. 3,327,354.

Delaney, Lawrence J. Method for blood clot lysis. 3,352,303. 11–14–67, Cl. 128—24.

Delaney, Ronald A., and K. J. Puttlitz, to International Business Machines Corp. Hygrometer and method of fabrication. 3,345,596, 10–3–67, Cl. 338—35.

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De Lang, Hendrik, and G. P. Brouwer, to North American Philips Co., Inc. Arrangement by means of which a member displaceable in a flat plane may repeatedly be adjusted in a reproducible manner to a plurality of points with pre-determined pairs of co-ordinates. 3,354,806, 11–28–67, Cl. 95—73.

Delange, Maurice, and H. Huet, to Commissariat a l'Energie Atomique. Method of remote starting of exothermic chemical reactions for the production of uranium. 3,356,492, 12–5–67, Cl. 75—84.1.

Delano, Donald J., and F. J. Dombik, to Allied Chemical Corp. Polyester dyeing with polychlorobenzene-aryl glycol ether dye solution and said dye solution. 3,313,590, 4–11–67, Cl. 8—55

De Lano, Merrit V., Jr., to Phillips Petroleum Co. Process for the removal of aluminum chloride from hydrocarbons using concentrated, aqueous hydrogen chloride. 3,349,143, 10–24–67, Cl. 260—671.

Delanoy, Richard L., and G. J. Laurer, to International Business Machines Corp. Schmitt trigger with active collector to base coupling. 3,300,654, 1–24–67, Cl. 307—88.5.

De Lany, Beatrice P., and P. L. Copeland, by G. P. Copeland, executor of the estate of said P. L. Copeland, dec'd., ½ to G. P. Copeland. Slot cathode. 3,304,456, 2–14–67, Cl. 313—182.

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Molstedt, Byron V., Maak, and Delaune. 3,341,648.

De Laval, Carl G., Jr. Method of making cast iron. 3,317,-310, 5–2–67, Cl. 75—43.

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Delbuguet, Rene G. Plant watering and feeding device. 3,345,-774, 10–10–67, Cl. 47—48.5.

Del Castillo, Jacques M. G. D. Internal combustion engine. 3,315,648, 4–25–67, Cl. 123—18.

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Delcellier, Henri A., to Canadian Ingersoll-Rand Co., Ltd. Apparatus for removing deleterious material from pulp stock. 3,313,413, 4–11–67, Cl. 209—211.

Delchev, Nedelko, to F. J. Harding. Electrically controlled shock absorber system. 3,321,210, 5–23–67, Cl. 280—6.

Del Colle, Dominic. Air circulation control means. 3,330,202. 7–11–67, Cl. 98—40.

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Verges, Paul F., and Delebecque. 3,323,167.

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De Leo, Richard V., and F. W. Hagen, to Rosemount Engineering Co. Pressure sensing instrument for aircraft. 3,318,-146, 5–9–67, Cl. 73—180.

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Delenze, Antoine, and R. G. L. Gulling, to Rhone-Poulenc S.A. Extrusion die. 3,346,918, 10–17–67, Cl. 18—12.

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Delgodo, Manuel M. Method of making toroidal seal. 3,325.-892, 6–20–67, Cl. 29—529.

Delgrosso, Eugene J., and L. A. Friedrich, to United Aircraft Corp. Method of forming a refractory metal body containing dispersed refractory metal carbides. 3,343,952, 9–26–67, Cl. 75—203.

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Crowther, Gerald O., and Deli. 3,308,281.

Dell, Jack M., and H. B. Karpiel, to International Harvester Co. Forward-reverse drive control. 3,333,485, 8–1–67, Cl. 74—479.

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De Lia, Ernest, deceased (by L. De Lia, administratrix), W. R. Pepis, D. J. Carlick, and W. J Kissel, to Interchemical Corp. Polyamides produced from polyepoxides, dimeric fatty acids and polyamines. 3,308,076, 3–7–67, Cl. 260—18

D'Elia, Janet M. Anti-cribbing mask for horses. 3,308,791, 3–14–67, Cl. 119—129.

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De Lisle, Auguste L., deceased, by F. S. de Lisle, executrix, to University of Arizona Foundation. Countercurrent rotary leaches with spiral scoop solids conveyors. 3,297,-410, 1–10–67, Cl. 23—269.

De Lisle, Auguste L., deceased (by F. S. de Lisle, heir). Means and method for defluoridation of water. 3,337,453, 8–22–67, Cl. 210—46.

De Lisle, Auguste L., to Phoenix Gems, Inc. Method of controlling insects in cow barns and the like areas. 3,350,264, 10–31–67, Cl. 167—14.

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Delisle, Jean-Paul, to Commissariat a l'Energie Atomique. Method and apparatus for continuously measuring liquid metal oxide saturation temperatures. 3,343,401, 9–26–67, Cl. 73—17.

DeLisle, William E., and C. J. Krebs, to Sylvania Electric Products Inc. Phase-lock loop with adaptive bandwidth. 3,3287,719, 6–27–67, Cl. 331—17.

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De Livois, Guy M. B., to Controle Bailey (Societe Anonyme). Method for securing burners. 3,335,782, 8–15–67, Cl. 158—117.5.

Delker, Glenn F. Universal joint with an automatic greasing mechanism. 3,326,323, 6–20–67, Cl. 184—6.

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Buerger, Herbert. 3,320,002.

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Dell, Harry J., to AMP Inc. Fluorescent tube socket. 3,344,-390, 9–26–67, Cl. 339—52.

Dell, Harry J., R. C. Swengel, Jr., N. J. Dougherty, and W. J. Garver, to AMP Inc. Fluorescent light socket. 3,333,227. 7–25–67, Cl. 339—53.

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Dell, Paul A., to General Electric Co. Electroluminescent lamp having an aluminum electrode with an aluminum oxide layer disposed between the aluminum electrode and the electroluminescent material. 3,346,758, 10–10–67, Cl. 313—108.

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Dell, Vernon C., to United States of America, Navy. Anti-squeeze mode control surface mechanism. 3,355,130, 11–28–67, Cl. 244—3.21.

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Delli Paoli, Alexander, to Esso Research and Engineering Co. Tanker. 3,326,167, 6–20–67, Cl. 114—74.

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Delmege, James W., Jr., and R. W. Pulver, Jr., to International Business Machines Corp. Data shifting apparatus. 3,311,896, 3–28–67, Cl. 340—172.5.

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Delmonte, David W., to Hercules Inc. Polyurethane foam produced from hydroxyalkylated substantially petroleum hydrocarbon-insoluble pine wood resin. 3,356,622, 12–5–67, Cl. 260—2.5.

De Long, Allen R., to Bellco Glass, Inc. Handling and coding clip for a culture tube closure. 3,318,627, 5–9–67, Cl. 294—16.

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De Long, Donald C., M. M. Hoehn, and J. M. McGuire, to Eli Lilly and Co. Antibiotic A–10598 and method of producing. 3,335,059, 8–8–67, Cl. 167—65.

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De Long, Louis H. Boat and barge combination. 3,345,970, 10–10–67, Cl. 114—235.

De Long, Max M., B. A. Stout, and S. K. Ries, to Board of Trustees of Michigan State University. Cucumber harvester. 3,347,031, 10–17–67, Cl. 56—327.

De Long, Richard C., C. R. Wagner, and B. J. Samuels, to Allied Chemical Corp. Removal of chlorine from liquid phosgene with activated carbon. 3,331,873, 7–18–67, Cl. 260—544.

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De Lorenzo, Eugene J., and R. V. Wright, to United States of America, Air Force. Method for preparation of reaction products of decaborane and conjugated diolefins. 3,301,907, 1–31–67, Cl. 260—606.5.

De Lorenzo, Mario M. Sealed beam headlamps with a reflective safety ring. 3,309,554, 3–14–67, Cl. 313—111.

De Lorenzo, Paul, to The Delfield Co. Drink dispenser. 3,331,-536, 7–18–67, Cl. 222—108.

De Lorme, Albert R., and J. G. Perkins, to Boyne Products, Inc. Self-centering toggle switch with improved actuator contact structure. 3,299,224, 1–17–67, Cl. 200—6.

De Lorme, Thomas L., Jr., J. W. Gannon, and H. W. McDonough, to Elgin Elmac Enterprises, Inc. Muscular exercising and evaluation apparatus. 3,323,366, 6–6–67, Cl. 73—379.

De Los Santos Izquierdo, Federico. Rotatory mills. 3,326,476, 6–20–67, Cl. 241—55.

Deloye, Francois N., to Société Industrielle des Materiaux Blancs—SIMAB. Microporous chalk mortar composition. 3,326,706, 6–20–67, Cl. 106—97.

Delp, Donald A., to McGill Mfg. Co., Inc. Mechanical device. 3,330,607, 7–11–67, Cl. 308—187.2.

Delp, Winner F., to The Jade Corp. Precision art work machine. 3,334,541, 8–8–67, Cl. 88—24.

Del Perugia, Andre. Method, apparatus and machine for delimbing and sectioning a standing tree. 3,356,113, 12-5-67, Cl. 144—34.

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Delphin, Pierre. Travelling wave tube with two stage electron concentrating and focusing. 3,307,064, 2-28-67, Cl. 315—3.5.

Delplanque, Marcel L. A. Photographic reproducing apparatus. 3,309,960, 3-21-67, Cl. 88—24.

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Donner, Verne P. 3,334,654.
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De Lucia, Victor E. Vacuum relay. 3,324,430, 6-6-67, Cl. 335—84.

De Lucia, Victor E. Vacuum relay for radio frequency signals. 3,336,546, 8-15-67, Cl. 335—154.

Deluga, Sigmund S., J. W. Harnach, and R. Q. Little, Jr., to Standard Oil Co. Railway diesel oil. 3,340,190, 9-5-67, Cl. 252—33.4.

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Demagny, Daniel. System for assembling pleated fabric with overlapping inset sheets. 3,357,608, 12-12-67, Cl. 223—30.

Demaison, Raymond J., to Quigley Co., Inc. Furnace repair gun. 3,333,774, 8-1-67, Cl. 239—335.

Demaison, Raymond J., to Quigley Co., Inc. Apparatus for applying a protective refractory coating to the refractory linings of basic oxygen furnaces. 3,351,289, 11-7-67, Cl. 239—132.3.

Demaison, Raymond J., to Quigley Co., Inc. Method for prolonging the life of refractory linings in furnaces of the kaldo, linz-donowitz, demay or basic or acid converter types. 3,351,460, 11-7-67, Cl. 75—60.

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De Man, Heiko T., to Dynamic Research Corp. Rolling contact label printer and applicator. 3,330,207, 7-11-67, Cl. 101—92.

Deman, Pierre, to Compagnie Francaise Thomson-Houston-Hotchkiss Brandt. Angle-modulation signal system of the angle-lock type. 3,320,544, 5-16-67, Cl. 331—8.

Deman, Pierre, to Compagnie Francaise Thomson-Houston-Hotchkiss Brandt. System for automatic radio transfer of digital information and for distance computation. 3,341,845, 9-12-67, Cl. 343—6.5.

De Marco, Carlo G., to United States of America, Army. Method of producing N-chloramide vesicant fabric and the resulting fabric. 3,353,989, 11-21-67, Cl. 117—62.1.

De Marco, Carlo G., and G. M. Dias, to United States of America, Army. Novel water and oil-resistant fibrous structures, processes and compositions therefor. 3,347,812, 10-17-67, Cl. 260—29.6.

De Marco, John J. Biopsy knife for cutting a conical specimen. 3,327,702, 6-27-67, Cl. 128—2.

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De Marco, Peter T., and L. J. Salerno, to Mar-Sal, Inc. Treatment of arteriosclerotic diseases. 3,337,406, 8-22-67, Cl. 167—65.

Demare, Baltzar L., to United States of America, Army. Pancake connector. 3,299,395, 1-17-67, Cl. 339—176.

De Mare, Baltzar L., to United States of America, Army. Recorder speed changer. 3,314,076, 4-11-67, Cl. 346—136.

Demarest, Henry M., Jr., and J. S. Sieger, to Pittsburgh Plate Glass Co. Glass prepolishing method and apparatus. 3,350,248, 10-31-67, Cl. 156—24.

Demarest, Kenneth D., to Foster Wheeler Corp. Tube design for terrace wall furnace. 3,348,923, 10-24-67, Cl. 23—288.

De Maria, Anthony J., to United Aircraft Corp. Frequency modulation for lasers. 3,297,876, 1-10-67, Cl. 250—199.

De Maria, Anthony J., to United Aircraft Corp. Direction sensor for laser gyro. 3,345,909, 10-10-67, Cl. 88—14.

De Maria, John, E. R. Pearson, and E. F. Hogan. Plastic printing plate. 3,338,163, 8-29-67, Cl. 101—401.1.

Demaria-Lapierre & Mollier: *See*—
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De Maris, Joseph L., A. H. Holtzman, and A. Pocalyko, to E. I. du Pont de Nemours and Co. Rolling explosion-bonded titanium clads. 3,331,121, 7-18-67, Cl. 29—475.

De Marsh, Peter L.: *See*—
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De Martini, Stephen, and J. V. Garito. Triple waxing attachment for thread winding machines. 3,356,305, 12-5-67, Cl. 242—35.5.

Demas, Nickolas P., to Tung-Sol Electric, Inc. Process of manufacture of incandescent lamp. 3,341,272, 9-12-67, Cl. 316—17.

Demas, Perry. Collapsible waste receptacle. 3,329,298, 7-4-67, Cl. 220—8.

De Masi, Ernest. Rolling mill. 3,350,909, 11-7-67, Cl. 72—242.

De Mastry, Anthony J., and J. A. Guggenaster, to General Motors Corp. Method of fabricating a fastener unit. 3,296,694, 1-10-67, Cl. 29—520.

Demay, Peter P., and J. E. Hogel, to Honeywell Inc. Pressure differential relay. 3,303,747, 2-14-67, Cl. 91—47.

Dembiak, Stanley F. Process for making molded articles with undercuts. 3,313,873, 4-11-67, Cl. 264—134.

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Demeester, Jacques, to The British Petroleum Co. Ltd. Fractionation of hydrocarbon mixtures. 3,326,799, 6-20-67, Cl. 208—364.

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De Meiss, Rene, to Brevets Aero-Mecaniques S.A. Armored vehicles having turrets mounting guns in cylindrical drum housings. 3,340,771, 9-12-67, Cl. 89—36.

De Melio, Frank A., to Union Carbide Corp. Polyolefin-vinyl chloride polymer blends comprising crosslinking agents and lead salts incorporated as hydrocarbon solutions. 3,326,828, 6-20-67, Cl. 260—23.

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De Mert, Jack. Method of separating light energy from shock wave energy including the pumping of a laser with an exploding wire. 3,300,734, 1-24-67, Cl. 331—94.5.

De Ment, Jack. Method and apparatus for pumping a laser by exploding dispersed metal particles. 3,309,620, 3-14-67, Cl. 331—94.5.

De Meo, Attilio A.: *See*—
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Demeo, Nicholas L., to United Electric Control Co. Miniature pneumatic valve. 3,304,948, 2-21-67, Cl. 137—270.

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De Merre, Leon J., to Johnson & Johnson. Sanitary napkin having control element with gel-forming material. 3,329,145, 7-4-67, Cl. 128—290.

Demers, Alfred J., to The Borden Co. Foamed polyurethane laminate and the adhesive composition. 3,303,086, 2-7-67, Cl. 161—159.

Demeter, Laszlo, B. Galgoczi, E. Bozzay, and I. Zagyvai, to Nikex Nehezipari Kulkereskedelmi Vallalat. Clarification of surface waters. 3,350,302, 10-31-67, Cl. 210—45.

Demetriff, William A., and P. G. Daugirda, to Rheem Mfg. Corp. Dip tube connection. 3,319,980, 5-16-67, Cl. 285—140.

Demetrovits, Eugene B. Grinders. 3,326,477, 6-20-67, Cl. 241—60.

Demeules, Eugene A. and J. A., to Standard Iron & Wire Works, Inc. Adjustable length joist. 3,325,957, 6-20-67, Cl. 52—632.

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Deming, Andrew F., to Consolidated Electronics Industries Corp. Phase sensitive switching element. 3,313,952, 4-11-67, Cl. 307—88.5.

Deming, Andrew F., to Consolidated Electronics Industries Corp. Controllable servomotor with balanceable circuit indicator. 3,329,945, 7-4-67, Cl. 340—187.

Deming, Andrew F., to Consolidated Electronics Industries Corp. Narrow bandwidth receiver with output equal to the voltage difference of a selected modulation frequency and all frequency voltages. 3,333,272, 7-25-67, Cl. 343—225.

Deming, Arthur T. Paper mill knife and mounting therefor. 3,323,739, 6-6-67, Cl. 242—56.

Deming, Burr G., to The Superior Electric Co. Plural transformer electric load control circuit. 3,302,030, 1-31-67, Cl. 307—17.

Deming, Dale R.: *See*—
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Deming, Harold L. Hole cutter. 3,306,138, 2-28-67, Cl. 77—77.

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DeMinjer, Clara H., to North American Philips Co., Inc. Method of coating p-type germanium with antimony, lead or alloys thereof by electrodeposition and product thereof. 3,322,516, 5-30-67, Cl. 29—194.

Demirel, Turgut, to Iowa State University Research Foundation, Inc. Acid-treated corn cob construction material and method of producing same. 3,301,800, 1-31-67, Cl. 260—17.4.

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Demler, Henry W., Sr., to AMP Inc. Connector elements. 3,316,522, 4-25-67, Cl. 339—47.

Demler, Walter R., M. D. Edelman, M. R. Hallinan, and J. M. Kosmala, to Allied Chemical Corp. Solubilized fumaric acid compositions and method of making same. 3,351,471, 11-7-67, Cl. 99—78.

Demmler, Louis F. Snap lock sheet-metal seam. 3,295,560, 1-3-67, Cl. 138—166.

Demmy, Robert C., to Radio Corp. of America. Shadow mask frame with curved supporting flange paralleling screen surface. 3,333,134, 7-25-67, Cl. 313—85.

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De Monte, Robert W., to Bell Telephone Laboratories, Inc. Building-out network for non-loaded transmission lines. 3,303,437, 2-7-67, Cl. 333—28.

De Montigny, Raimbault M. A. T., J. A. Lapointe, and J. G. Buchanan, to Pulp and Paper Research Institute of Canada. Apparatus for making formed fibrous webs. 3,311,533, 3-28-67, Cl. 162—203.

De Montremy, Jean. Devices for projecting moving pictures of the animated cartoon type. 3,305,295, 2-21-67, Cl. 352—68.

De Moor, Raymond J., to Jasper Blackburn Corp. Earth anchor wing. 3,330,632, 7-11-67, Cl. 29—193.5.

Demos, George. Drive-away vehicle transporting combination. 3,334,940, 8-8-67, Cl. 296—1.

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De Motta, Helio S. Surveilliance system and apparatus for recording the listening or viewing habits of radiant energy wave signal receiver users. 3,328,802, 6-27-67, Cl. 346—37.

De Moustier, Edouard, and J. Perreau, to l'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method and article for the injection of fluids into hot molten metal. 3,330,645, 7-11-67, Cl. 75—60.

De Moustier, Henri. Apparatus for extruding suitably outlined parts made of thermoplastic synthetic material. 3,296,661, 1-10-67, Cl. 18—14.

De Moustier, Henri, to Plastival S.A. Connection between shaped elements. 3,304,682, 2-21-67, Cl. 52—475.

Dempsey, James F., H. M. Khelghatian, and R. P. Maloney, to Avisun Corp. Process for altering the particle size distribution of alpha mono olefin polymers. 3,322,720, 5-30-67, Cl. 260—45.85.

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Dempsey, Terence P., and K. A. Shkardoon, to The Commissioner for Railways. Alerting systems for vehicle crews. 3,345,513, 10-3-67, Cl. 246—182.

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Demrick, Carl J. Method for making steel wool soap pad. 3,348,296, 10-24-67, Cl. 29—419.

Demrick, Carl J. Steel wool soap pad and method of making same. 3,351,416, 11-7-67, Cl. 401—201.

Demrick, Raymond R., and J. L. Leonard, to Avis Industrial Corp. Hasp. 3,317,230, 5-2-67, Cl. 292—281.

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De Muth, Harry C., to De Muth Steel Products Co. Lug for silo or similar structure. 3,329,296, 7-4-67, Cl. 217—95.

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Den Besten, Henrikus, to Stamicarbon N.V. Door or window frame. 3,354,586, 11-28-67, Cl. 49—504.

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Dence, Donald S., to Clark Equipment Co. Vehicle operator seat brake control system. 3,332,522, 7-25-67, Cl. 188—109.

Denchfield, Jerrold R., to Sinclair Research, Inc. Addition copolymers of N-substituted 2-phenyl-allyl carbamate and ethylenically unsaturated hydrocarbons. 3,299,021, 1-17-67, Cl. 260—77.5.

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De Neergaard, Leif E., deceased, by The Northern Trust Co., to F. W. Olmstead, H. W. Trechsel, % The Gisholt Machine Co., D. A. Gerard, and N. S. Parker, as trustees. Element for measuring displacements. 3,295,214, 1-3-67, Cl. 33—125.

De Neergaard, Leif E., deceased, by The Northern Trust Co., to F. W. Olmstead, H. W. Trechsel, % The Gisholt Machine Co., and D. A. Gerard, as trustees. Control system for machine tools utilizing magnetic recording. 3,296,606, 1-3-67, Cl. 340—174.1.

De Neergaard, Leif E., deceased, by L. J. Mueller, executor, to H. W. Trechsel, D. A. Gerard, and N. S. Parker. Method and apparatus for measuring displacements. 3,303,487, 2-7-67, Cl. 340—195.

De Neergaard, Leif E., deceased, by The Northern Trust Co., to F. W. Olmstead, H. W. Trechsel, D. A. Gerard, and N. S. Parker, as trustees. Control system for machine tools. 3,329,963, 7-4-67, Cl. 346—74.

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Denenberg, Maurice. Method and apparatus for making a laminate with unbonded edge. 3,329,547, 7-4-67, Cl. 156—247.

Denenberg, Maurice. Laminated tubing. 3,338,270, 8-29-67, Cl. 138—144.

Denes, Robert, to Borg-Warner Corp. Hydrokinetic drive. 3,320,747, 5-23-67. Cl. 60—54.

Denes, Robert, to Borg-Warner Corp. Hydrokinetic drive. 3,330,111, 7-11-67, Cl. 60—54.

Denes, Robert, and H. A. McAninch, to Borg-Warner Corp. Forward/reverse drive. 3,320,746, 5-23-67, Cl. 60—54.

Denes, Robert, P. Posega, and J. C. Hayter, to Borg-Warner Corp. Variable pitch hydrokinetic drive. 3,330,112, 7–11–67, Cl. 60—54.

De Nevers, Noel H., to United States of America, Atomic Energy Commission. Apparatus for controlling the flow of solids. 3,307,700, 3–7–67, Cl. 210—112.

Deng, Niann-Chyung, S. L. Lindauer, and G. T. Paul, to International Business Machines Corp. Apparatus for testing binary-coded decimal arithmetic digits by binary parity checking circuits. 3,300,625, 1–24–67, Cl. 235—153.

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Den Hertog, Charles G., to North American Philips Co., Inc. Frequency shift signaling system with auxiliary control of pulse regenerator in the absence of data signals. 3,302,114, 1–31–67, Cl. 325—30.

Den Hertog, Charles G., to North American Philips Co., Inc. Receiving device for pulses modulated by phase jump modulation on a carrier oscillation. 3,343,090, 9–19–67, Cl. 325—320.

Den Hertog, Jacobus M.: *See*—
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Den Hollander, Charles W., to Hoffmann-La Roche, Inc. Process for preparing 5-halo-2-amino-phenyl-3-aryl ketones. 3,352,877, 11–14–67, Cl. 260—296.

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Denis, Jean, G. A. Fontaine, and C. Molin, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Welding machine. 3,359,400, 12–19–67, Cl. 219—78.

Denis, Michel, to Institut de Recherches de la Siderurgie Francaise. Burner for producing a stable flame with a high concentration of heat stabilized by a shock wave. 3,333,619, 8–1–67, Cl. 158—76.

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Denman, Arthur G. Cord operated humming reel. 3,318,041, 5–9–67, Cl. 46—60.

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Denney, Harry A., Jr. Clothing support for surgical patients. 3,345,983, 10–10–67, Cl. 128—82.

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Dennis, David S., to General Motors Corp. Electronic governor. 3,356,081, 12–5–67, Cl. 123—102.

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Dennis, James T. Automatic record changer. 3,321,205, 5–23–67, Cl. 274—10.

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Dennis, John L., to Avco Corp. Noise blanker circuit comprising oppositely wound secondary windings. 3,322,968, 5–30–67, Cl. 307—88.5.

Dennis, John L., to Avco Corp. Temperature-compensated discriminator providing amplification. 3,348,158, 10–17–67, Cl. 329—141.

Dennis, Kent S., to The Dow Chemical Co. Polymeric dicarboxylic acids of block copolymers of alpha-methyl styrene and conjugated diolefins and method of making the same. 3,346,666, 10–10–67, Cl. 260—879.

Dennis, Louis E., L. M. Stuebe, and A. C. Roecker, to Beloit Corp. Headbox with bottom wall having controllable deflection. 3,313,681, 4–11–67, Cl. 162—252.

Dennis, Michel, to Institut de Recherches de la Siderugie Francaise. Electric discharge apparatus for chemically reacting flowing gases. 3,308,050, 3–7–67, Cl. 204—312.

Dennis, Ralph L., to Boston Machine Works Co. Combustion chamber. 3,330,323, 7–11–67, Cl. 158—1.

Dennis, Tom L., Jr., to Collins Radio Co. Combined alc and power level transmitter control. 3,332,017, 7–18–67, Cl. 325—187.

Dennis, Wolcott, to Air Reduction Co., Inc. Refrigerating and conditioning of a process stream in a cryogenic process. 3,316,725, 5–2–67, Cl. 62—14.

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Dennison, Richard L., to Magnetic Controls Co. System for remotely controlling the operation of a power distribution network. 3,359,551, 12–19–67, Cl. 340—310.

Dennison, William T., to United Aircraft Corp. Vane construction in turbofan engine. 3,330,475, 7–11–67, Cl. 230—122.

Dennison, William T., to United Aircraft Corp. Shaft lock for compressor or turbine lock. 3,343,854, 9–26–67, Cl. 287—53.

Denny, Arthur D., deceased (by G. D. Denny), to Owens-Corning Fiberglas Corp. Producing high temperature calcium silicates. 3,317,643, 5–2–67, Cl. 264—234.

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Dent, John W., to The Dentline Mfg. Co., Ltd. Apparatus for checking the tracking of the front wheels of a motor vehicle. 3,305,936, 2–28–67, Cl. 33—203.17.

Dent, Ray F., to Dominion Electrohome Industries Ltd. Triggered marker generator with feedback network for holding off undesired signals. 3,353,035, 11–14–67, Cl. 307—88.5.

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Denton, William H., D. Handley, and H. R. C. Pratt, to United Kingdom Atomic Energy Authority. Hydrogen isotope exchange processes. 3,336,113, 8–15–67, Cl. 23—210.

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Derfer, John M., to The Glidden Co. Pretreating and isomerizing α-pinene. 3,360,581, 12–26–67, Cl. 260—675.5.

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De Ridder, Rene R., to Manufacture de Produits Pharmaceutiques A. Christiaens Societe Anonyme. Theophylline derivatives. 3,317,533, 5–2–67, Cl. 260—253.

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De Ruggieri, Pietro, C. Gandolfi, and U. Guzzi, to Ormonoterapia Richter S.p.A. 5'-substituted steroidal pyrazoles of the pregnane series. 3,325,480, 6–13–67, Cl. 260—239.5.
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Des Brisay, George S., Jr., to Hughes Aircraft Co. Ramp generator circuits having rapid recovery and providing linear ramps. 3,313,955, 4–11–67, Cl. 307—88.5.
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De Seversky, Alexander P., to Electronatom Corp. Integrated pollution control system. 3,315,445, 4–25–67, Cl. 55—122.
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De Shetler, Leo C., and E. H. Mumford, to Owens-Illinois, Inc. Cylinder mounting on I.S. type glassware forming machine. 3,314,775, 4–18–67, Cl. 65—167.
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Dickinson, Barry L., to Union Carbide Corp. Treated polymer surfaces of shaped articles. 3,333,032, 7–25–67, Cl. 264—22.

Dickinson, Ben W. O., III. Method and apparatus for detecting flaws using ultrasonic helical waves. 3,299,694, 1–24–67, Cl. 73—67.5.

Dickinson, Ben W. O., III. Ultrasonic testing apparatus. 3,299,695, 1–24–67, Cl. 73—67.5.

Dickinson, Ben W. O., III. Apparatus for generating, directing and receiving ultrasonic wave trains. 3,299,696, 1–24–67, Cl. 73—71.5.

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Dickson, James J., to Allis-Chalmers Mfg. Co. Nuclear reactor control means. 3,309,278, 3–14–67, Cl. 176—36.

Dickson, John. Game board. 3,347,460, 10–17–67, Cl. 235—90.

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Dickson, Robert W., to British Visqueen Ltd. Gusseted plastics bag. 3,326,449, 6–20–67, Cl. 229—62.

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Di Drusco, Giovanni, to Montecatini Societa Generale per l'Industria Mineria e Chimica. Apparatus for improved fluidized beds and reactors containing same. 3,298,792, 1–17–67, Cl. 23—284.

Di Drusco, Giovanni, and A. Colamussi, to Montecatini Edison S.p.A. Process for separating elastomeric homopolymers and copolymers from solutions thereof. 3,320,220, 5–16–67, Cl. 260—80.5.

Dieberg, Rolf, to Varta Aktiengesellschaft. Sintered nickel-carbon gas diffusion electrode for fuel cells. 3,306,780, 2–28–67, Cl. 136—121.

Diebold, Adolf, and L. Doerr, to Badische Anilin-& Soda-Fabrik Aktiengesellschaft. Metallizing plastic surfaces. 3,332,860, 7–25–67, Cl. 204—38.

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Diehl, William R., to Rowland Products, Inc. Refillable matchbook cover. 3,306,436, 2–28–67. Cl. 206—29.

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Dolf, Hans R., to Selas Corp. of America. Method of forming glass beads in a molten metal bath. 3,353,940, 11–21–67, Cl. 65—21.
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Dolhun, Leonard N., to AP Parts Corp. Stuffing box replacement seal. 3,311,382, 3–28–67, Cl. 277—91.
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Doll, Martin. Cushioned chicken shipping box. 3,326,186, 6–20–67, Cl. 119—19.
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Dolle, Roland E., Jr., to United States of America, Air Force. High temperature oxidative degradation resistant fluids and the preparation thereof. 3,322,671, 5–30–67, Cl. 252—49.7.
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Dollinger, Robert E., L. V. Wilson, and F. T. Sherk, to Phillips Petroleum Co. Heat recovery in thermal conversion process. 3,347,949, 10–17–67, Cl. 269—679.
Dollinger, Robert E., and R. L. Huxtable, to Phillips Petroleum Co. Continuous process for producing block copolymers of dienes and vinyl aromatic hydrocarbons. 3,356,763, 12–5–67, Cl. 260—880.
Dollison, William W., to Otis Engineering Corp. Pressure operated safety valve. 3,310,114, 3–21–67, Cl. 166—224.
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Dollot, Yves C., to Societe Industrielle Bull-General Electric (Societe Anonyme). Arrangements relating to the printing ribbon in printing machines. 3,354,822, 11–28–67, Cl. 101—336.

Dolney, Stanley M., to The Cyril Bath Co. Tension control. 3,302,437, 2–7–67, Cl. 72—296.

Dolney, Stanley M., to The Cyril Bath Co. Wipe and stretch forming machine with rise and fall of stretch head controlled by rise and fall of wipe shoe. 3,314,258, 4–18–67, Cl. 72—21.

Dolney, Stanley M., to The Cyril Bath Co. Gripping jaws for gripping sheet metal. 3,314,270, 4–18–67, Cl. 72—305.

Dolney, Stanley M., and R. A. MacKenzie, to The Cyril Bath Co. Method and apparatus for combined stretch forming and die drawing. 3,299,689, 1–24–67, Cl. 72—297.

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Alper, Allen M., Doman, and McNally. 3,340,077.
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Domann, Helmut, and H. Moller, to Robert Bosch G.m.b.H. Blinking light control arrangement. 3,329,868, 7–4–67, Cl. 315—225.

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Dombrowski, Theodor, to Wilhelm Hegenscheidt Kommanditgesellschaft. Machine for treating wheels of railroad vehicles. 3,345,891, 10–10–67, Cl. 82—8.

Dombrowski, Theodor, to Wilhelm Hegenscheidt Kommanditgesellschaft. Wheel turning lathe. 3,345,892, 10–10–67, Cl. 82—8.

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Domenighetti, Domenico. Extensible levelling apparatus to be used in connection with finishers for the spreading of bituminous conglomerates. 3,309,971, 3–21–67, Cl. 94—45.

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Dominion Tar & Chemical Co., Ltd.: *See*—
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Dommann, Gunther, to Gewerkschaft Eisenhutte Westfalia. Chain strand, especially for mining conveyors. 3,319,777, 5–16–67, Cl. 198—168.

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Dommann, Gunther, and W. Mennekes, to Gewerkschaft Eisenhutte Westfalia. Coal winning apparatus with planar and adjustable height rotary cutter means. 3,339,981, 9–5–67, Cl. 299—34.

Dommann, Gunther, M. Floter, and K. Becker, to Gewerkschaft Eisenhutte Westfalia. Self-traveling propping apparatus. 3,344,610, 10–3–67, Cl. 61—45.

Dommann, Günther, and M. Floter, to Gewerkschaft Eisenhutte Westfalia. Traveling hydraulic mine roof propping apparatus. 3,347,050, 10–17–67, Cl. 61—45.

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Donahue, James C. Farm implement carrier. 3,338,440, 8–29–67, Cl. 214—506.

Donahue, John P., and S. T. Wright, to D. & S. Processing Co. Flocking method and machine. 3,357,848, 12–12–67, Cl. 117—28.

Donahue, Leo O., and R. E. Behrens, to Graphic Engineers, Inc. Machine for conveying and stacking papers. 3,327,597, 6–27–67, Cl. 93—93.

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Donaldson, Desmond M., to Borg-Warner Corp. Heat exchanger. 3,321,014, 5–23–67, Cl. 165—185.

Donaldson, Raymond E., and C. C. White, to Eastman Kodak Co. Non-water spotting backing of rubber latex containing alkali metal formate. 3,324,067, 6–6–67, Cl. 260—29.7.

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Donalies, Daniel J., to Xerox Corp. Powder cloud development apparatus. 3,357,403, 12–12–67, Cl. 118—637.

Donalies, Daniel J., to Xerox Corp. Motor action capillary. 3,359,566, 12–19–67, Cl. 346—140.

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Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Process for reducing aromatic and cycloaliphatic nitro compounds. 3,354,212, 11–21–67, Cl. 260—566.

Donat, Frank J., to The B. F. Goodrich Co. Water soluble and insoluble emulsifier mixture for vinyl polymers. 3,311,579, 3–28–67, Cl. 260—23.

Donat, Frank J., and E. H. Baker, to The B. F. Goodrich Co. Emulsion polymerization using water insoluble metal salts of fatty acids. 3,344,100, 9–26–67, Cl. 260—23.7.

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Donegan, William J., to Donegan Optical Co., Inc. Adjustable head band. 3,325,824, 6–20–67, Cl. 2—8.

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Doner, John T., to Whirlpool Corp. Door stop mechanism. 3,299,879, 1–24–67, Cl. 126—194.

Dongus, Willi. Refrigeration counter for use in retail stores. 3,359,050, 12–19–67, Cl. 312—138.

Donguy, René, and A. Roguin, to Commissariat a l'Energie Atomique. Filtration cell. 3,342,022, 9–19–67, Cl. 55—356.

Doniger, Jerry, and R. Kostanty, to The Bendix Corp. Aircraft landing system including desensitization means. 3,335,980, 8–15–67, Cl. 244—77.

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Donnay, Jacques, to Compagnie Francaise Thomson-Houston. Television camera system having improved temperature control. 3,306,975, 2–28–67, Cl. 178—7.2.

Donnellan, Gerald L., and C. G. Delforce, to Ampep Industrial Products Ltd. Bearing units. 3,329,472, 7–4–67, Cl. 308—3.

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Donner, Verne P., to Deltrol Corp. Pressure-compensated flow control valves. 3,319,648, 5–16–67, Cl. 137—504.

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D'Onofrio, Anthony, to Pratt & Whitney Inc. System for remotely controlling the operation of a plurality of motors. 3,348,108, 10–17–67, Cl. 318—16.

Donofrio & Co.: *See*—
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Donofrio, David J. Anesthetizing, resuscitating, and respiratory apparatus. 3,349,766, 10–31–67, Cl. 128—145.6.

Donofrio, William T., to Dodge Audio-Visual Corp. Filmstrip holder. 3,300,886, 1–31–67, Cl. 40—152.

Donofrio, William T., to Donofrio & Co. Model slot type racing car with differential front wheel drive. 3,304,652, 2–21–67, Cl. 46—243.

Donoghue, Robert J. Multi-compartment container for dispensing measured quantities of a plurality of liquids. 3,347,420, 10–17–67, Cl. 222—129.

Donohoe, Leonard J., A. D. Fritz, D. E. Keefer, and N. G. Nicolau, to Texas Instruments Inc. Digital data handling. 3,302,180, 1–31–67, Cl. 340—172.5.

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Donohue, James M., to Xerox Corp. Automatic toner control system. 3,348,522, 10–24–67, Cl. 118—7.

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Donovan, Eugene P., to Westinghouse Electric Corp. Structures for semiconductor integrated circuits and methods of forming them. 3,343,255, 9–26–67, Cl. 29—577.

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Donovan, Robert P.: *See*—
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Donovan, William F., to United States of America, Army. Ratchet. 3,353,454, 11–21–67, Cl. 92—5.

Donovick, Richard, L. J. Heuser, and M. A. Dolliver, to E. R. Squibb & Sons, Inc. 3-lower alkyl-5-(4-pyridyl)-isoxazole-4-carbonyl derivatives. 3,345,375, 10–3–67, Cl. 260—295.

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Doolittle, Howard D., and H. Langer, to United States of America, Army. Coaxial cathode-anode electron tube with channel-shaped control grids for the beaming structure. 3,334,257, 8–1–67, Cl. 313—69.

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Doppelt, Charles, Lady's purse. 3,354,925, 11–28–67, Cl. 150—33.

Doppelt, Lawrence, M. Rosenblum, and A. Ungaro, to Goldberger Doll Mfg. Co., Inc. Molded floppy-limbed doll with cellular torso and limbs and substantially cell-free thin joints. 3,319,376, 5–16–67, Cl. 46—156.

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Dore, James E., and A. L. Kearney, to Olin Mathieson Chemical Corp. Horizontal continuous casting venting method. 3,352,350, 11–14–67, Cl. 164—82.

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Dorer, Casper J., Jr., to The Lubrizol Corp. Functional fluid containing a sludge inhibiting detergent comprising the polyamine salt of the reaction product of maleic anhydride and an oxidizer. 3,316,177, 4–25–67, Cl. 252—51.5.

Dorey, George B., to Continental Transport Appliances Ltd. System for automatically operating discharge doors of railway cars. 3,314,558, 4–18–67, Cl. 214—63.

Dorey, George B., to Continental Transport Appliances Ltd. Overcenter toggle latch overlapping hopper doors. 3,339,-500, 9–5–67, Cl. 105—253.

Dorey, George B., to Continental Transport Appliances Ltd. Hopper car discharge outlet assembly. 3,344,748, 10–3–67, Cl. 105—282.

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Dorion, George H., and K. O. Loedler, to American Cyanamid Co. Photochromic cellulosic paper, synthetic paper and regenerated cellulose. 3,314,795, 4–18–67, Cl. 96—90.

Dorion, George H., G. W. Nachtigall, and J. J. Cerreta, to American Cyanamid Co. Variable transmission compositions. 3,322,678, 5–30–67, Cl. 252—300.

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Dornak, Henry J. Boat hull with tunneled V-bottom. 3,330,-239, 7–11–67, Cl. 114—56.

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Dorner, Armin, to Linde Aktiengesellschaft. Heat exchanger for the transfer of sensible heat and heat of condensation from a gas to a heat-absorbing fluid. 3,316,961, 5–2–67, Cl. 165—145.

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Dosedla, Miroslav, and I. Pavlica, to Roudnicke Strojirny a Slevarny. Apparatus for the soilless cultivation of seedlings and plants. 3,300,895, 1–31–67, Cl. 47—1.2.

Dosedla, Miroslav, I. Pavlica, and O. Kokrhoun, to Roudnicke Strojirny a Slévárny. Apparatus and method for the soilless cultivation of seedlings and plants. 3,305,968, 2–28–67, Cl. 47—1.2.

Dosedla, Miroslav, C. Jelen, M. Tichacek, and J. Klusacek, to Roudnicke Strojirny A Slevarny. Apparatus and method for soilless cultivation and growing of green plants. 3,327,-425, 6–27–67, Cl. 47—1.2.

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Bremer, John W., Doss, and McKeever. 3,312,956.

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Doss, Richard C., to Phillips Petroleum Co. Butyl (butylthio) thiolacetate, and method of preparing thiol esters. 3,320,-300, 5–16–67, Cl. 260—455.

Doss, Richard C., to Phillips Petroleum Co. Preparation of thiol esters having alpha-sulfide linkages. 3,346,611, 10–10–67, Cl. 260—455.

Doss, Robert J., to Avco Corp. Voltage regulator utilizing a controlled variable duty cycle switch. 3,323,037, 5–30–67, Cl. 323—22.

Doss, Robert J., and J. E. Naylor, to Avco Corp. Combined gated pulse source-transverter-rectifier power supply with sampling connection for regulation. 3,305,756, 2–21–67, Cl. 321—2.

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Dostal, Frank, to Bulova Watch Co., Inc. Decoupling mounting plates for tuning fork oscillators. 3,310,757, 3–21–67, Cl. 331—116.

Dostal, Frank, to Bulova Watch Co., Inc. Magnetostrictive transducers. 3,311,352, 3–28–67, Cl. 259—72.

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Dotto, Gianni A., to P. R. Mallory & Co., Inc. Worm gear escapement. 3,307,417, 3–7–67, Cl. 74—426.

Dotto, Gianni A., to P. R. Mallory & Co., Inc. Venetian blind operation. 3,308,873, 3–14–67, Cl. 160—176.

Dotto, Gianni A., to P. R. Mallory & Co., Inc. Rapid advance and intermittent drive mechanism for a time sequence switch. 3,313,895, 4–11–67, Cl. 200—38.

Dotto, Gianni A., to P. R. Mallory & Co., Inc. Disc brake for washing machine. 3,322,240, 5–30–67, Cl. 188—163.

Dotto, Gianni A., to P. R. Mallory & Co., Inc. Snap action fluid escapement for obtaining intermittent rotary motion. 3,345,915, 10–10–67, Cl. 91—50.

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Dotto, Gianni A., to P. R. Mallory & Co., Inc. Timer having an adjustable time interval. 3,349,199, 10–24–67, Cl. 200—38.

Dotto, Gianni A., and W. L. Linn, to P. R. Mallory & Co., Inc. Rotary type engine. 3,301,233, 1–31–67, Cl. 123—16.

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Doubek, Edward R., Jr., and C. W. Reiley, to Western Electric Co., Inc. Systems for testing the tolerances of capacitive values of capacitors. 3,359,490, 12–19–67, Cl. 324—60.
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Doucet, Gilles, to Georges Lesieur & Ses Fils, Societe Anonyme. Device for positioning on a mechanical conveyor light objects moved by a pneumatic conveyor. 3,332,724, 7–25–67, Cl. 302—2.
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Doucette, Eugene F., and D. R. Lee, to Lee Packaging Machinery Corp. Apparatus for heat-sealing articles between sheets of transparent material. 3,333,395, 8–1–67, Cl. 53—182.
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Douda, Bernard E., to United States of America, Navy. Pyrotechnic compound tris (glycine) strontium (II) perchlorate and method for making same. 3,296,045, 1–3–67, Cl. 149—75.
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Dougall, John, to Joseph Lucas (Industries) Ltd. Electrical coil assemblies. 3,343,113, 9–19–67, Cl. 336—192.
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Downey, David F., and J. J. Moughty, to Electrolux Corp. Vacuum cleaner hose having electrical conductors. 3,300,571, 1–24–67, Cl. 174—47.

Downey, David F., and J. T. Ferraris, to Electrolux Corp. Adjustable length wand. 3,351,363, 11–7–67, Cl. 285—303.

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Downey, John F., to Polaroid Corp. Photographic products, processes and compositions. 3,347,673, 10–17–67, Cl. 96—29.

Downey, John F., and M. S. Simon, to Polaroid Corp. Photographic products, processes and compositions. 3,347,672, 10–17–67, Cl. 96—29.

Downey, John T. Transversely curved aerial toy with weighted nose. 3,353 295, 11–21–67, Cl. 46—74.

Downey, Margaret A. Press for molding plastic. 3,358,332, 12–19–67, Cl. 18—19.

Downey, Martin W., and L. K. Jones, to Sterling Faucet Co. Push button drain valve. 3,333,815, 8–1–67, Cl. 251—263.

Downey, Paul. Unloading and screening chute for shelled corn. 3,319,787, 5–16–67, Cl. 209—421.

Downey, Richard M. Apparatus for forming mineral fibers. 3,323,887, 6–6–67, Cl. 65—14.

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Downing, Edward T., to Raytheon Co. Magnetron tube having alternate cavities of the anode structure directly coupled to a stabilizing cavity. 3,334,268, 8–1–67, Cl. 315—39.65.

Downing, George G. Concrete block mold assembly. 3,318,563, 5–9–67, Cl. 249—140.

Downing, James H., and R. F. Merkert, to Union Carbide Corp. Vanadium containing addition agent and process for producing same. 3,334,992, 8–8–67, Cl. 75—5.

Downing, Joseph M. Crop drying apparatus. 3,308,557, 3–14–67, Cl. 34—218.

Downing, Leo G., and J. V. Kindall, to Bourns, Inc. Electrical resistance device. 3,310,766, 3–21–67, Cl. 338—20.

Downing, Lucien R., Jr., to Donn Products, Inc. Interlocking beam connectors. 3,297,345, 1–10–67, Cl. 287—189.36.

Downing, Lucien R., Jr., to Donn Products, Inc. Door frame fastener. 3,320,705, 5–23–67, Cl. 52—214.

Downing, Lucien R., Jr., to Donn Products, Inc. Beam connector. 3,320,713, 5–23–67, Cl. 52—666.

Downing, Lucien R., Jr., to Donn Products, Inc. Structural beam in a grid supporting fabric covered panel. 3,327,444, 6–27–67, Cl. 52—476.

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Doyer, Cornelis. Trough-shaped conveyor belt. 3,301,383, 1–31–67, Cl. 198—192.

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Doyle, Carroll F., to W. R. Grace & Co. Polystyrene fibers, finely divided silica thickening agent, and organic liquid materials thickened therewith. 3,354,114, 11–21–67, Cl. 260—40.

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Doyle, Wladzia G. P. and C. M. 3,350,001.

Doyle, Dewey L., D. I. Doyle, Jr., and P. E. Doyle, to Doyle Vacuum Cleaner Co. Vacuum cleaner units. 3,343,343, 9–26–67, Cl. 55—320.

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Doyle, James H., to General Data Corp. Analog to digital converter. Re. 26,274, 10–3–67, Cl. 340—347.

Doyle, James H. Electronic quantizer. 3,311,910, 3–28–67, Cl. 340—347.

Doyle, James J., A. J. Sarka, and F. C. Tancredi, to American Telephone and Telegraph Co. Stock quotation switching system utilizing calling rate detection means. 3,347,990, 10–17–67, Cl. 179—6.

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Doyle, Robert V. Golfer's aid including ball marker, plumb, and turf repair tool. 3,309,089, 3–14–67, Cl. 273—32.

Doyle, Thomas E., F. Fekete, P. J. Keenan, and W. J. Plant, to H. H. Robertson Co. Combination catalyst-inhibitor for beta-hydroxy carboxylic esters. 3,317,465, 5–2–67, Cl. 260—47.

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Doyle, Wladzia G. P. and C. M. Centrifugal countercurrent exchange device with improved removable strip means. 3,327,939, 6–27–67, Cl. 233—15.

Doyle, Wladzia G. P. and C. M. Integral gradient removable disc columns. 3,350,000, 10–31–67, Cl. 233—15.

Doyle, Wladzia G. P. and C. M. Method for fluid extraction and apparatus therefor. 3,350,001, 10–31–67, Cl. 233—15.

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Dragon, Peter F. Filter having assembling sealing and flushing means. 3,353,678, 11–21–67, Cl. 210—236.

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Drain, David J., J. G. B. Howes, and H. W. R. Williams, to T. J. Smith, & Nephew Ltd. 3,4-dihydroxy-benzyloxyamine. 3,349,135, 10–24–67, Cl. 260—621.

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Drake, Cyril F., and K. L. Ellington, to International Standard Electric Corp. Method of fabricating a semiconductor by out-diffusion. 3,320,103, 5–16–67, Cl. 148—191.

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Drake, Theodore R. Wood product and the method and apparatus for making the same. 3,316,948, 5–2–67, Cl. 144—318.

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Ludkin, Basil A. 3,353,555.

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Drapeau, Harold B., and D. F. Janous, to The Dole Valve Co. Thermal responsive actuator. 3,330,480, 7–11–67, Cl. 236—100.

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Draper, Cosby A., Jr., to General Electric Co. Telephone signalling system including a pulse-correcting system for maintaining constant make-to-break time ratio with varying dial pulse speeds. 3,312,784, 4–4–67, Cl. 179—16.

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Draper, Marshall D., to Rexall Drug and Chemical Co. 1-allyl-3-(substituted benzoyl)-4-(substituted phenyl)-4-hydroxypiperidines. 3,317,548, 5–2–67, Cl. 260—294.7.

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Drees, Joseph M., to Sylvania Electric Products, Inc. Expanding hollow plastic posts on opposite sides of eelctrode apertures for gripping electrodes. 3,317,981, 5–9–67, Cl. 29—25.13.

Drees, Joseph M., and J. A. Teresi, to Sylvania Electric Products Inc. Helix bundle banding sleeve with integral outwardly projecting support fingers. 3,308,399, 3–7–67, Cl. 333—31.

Drees, Joseph M., and T. R. Sherwood, to Sylvania Electric Products Inc. Method of making grid. 3,344,495, 10–3–67, Cl. 29—25.14.

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Dryvent Ltd.: *See*—
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Dudley, William A., to Merla Tool Corp. Gas lift valve having particular piston seal. 3,311,127, 3–28–67, Cl. 137—155.

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Duenke, Clarence G., and F. O. Engert, to Washington Electrical Products Co. Bushing connector. 3,321,735, 5–23–67, Cl. 339—202.

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Duff, Richard A. Crankshaft oil seal with tapered installation leader. 3,315,969, 4-25-67, Cl. 277—11.

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Kindersley, Charles R. D., and Duffield. 3,333,234.

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Du Fresne, Eugene R., to R. D. Sherer. Method and means for ice control. 3,298,290, 1-17-67, Cl. 94—4.

Du Fresne, Eugene R., and D. L. Campbell, to General Dynamics Corp. Method for fireproofing wood and the treated wood. 3,306,765, 2-28-67, Cl. 117—62.

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Dugan, Gordon F., and A. H. Widiger, to The Dow Chemical Co. Process for purifying 4,4'-isopropylidenediphenol. 3,326,986, 6-20-67, Cl. 260—619.

Dugan, Raymond O. Trailer tongue support. 3,360,282, 12-26-67, Cl. 280—475.

Dugan, William F., to Dynamics Corp. of America. Blender heat exchanger apparatus. 3,302,700, 2-7-67, Cl. 165—109.

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Dugger, Ralph L. Overhead door having outside controls. 3,331,157, 7-18-67, Cl. 49—200.

Dugle, Thomas, G. A. Lensky, and R. W. Wagner, to Continental Oil Co. Comminution machine for solid pliable material. 3,339,855, 9-5-67, Cl. 241—280.

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Duinker, Simon, to North American Philips Co., Inc. Method of manufacturing magnetic heads using a jig for accurately determining gap heights. 3,302,268, 2-7-67, Cl. 29—155.5.

Duinker, Simon, to North American Philips Co., Inc. Method of manufacturing reliable magnetic heads having accurately predetermined dimensions. 3,354,540, 11-28-67, Cl. 29—603.

Duinker, Simon, E. F. de Haan, G. Diemer, and J. G. van Santen, to North American Philips Co., Inc. Circuit comprising writing and reproducing circuits using electroluminescent and ferroelectric cells. 3,311,781, 3-28-67, Cl. 315—173.

Duinker, Simon, and D. Gossel, to North American Philips Co., Inc. Dosing pump operating in opposite phases for dosing liquid or gaseous media. 3,327,633, 6-27-67, Cl. 103—38.

Duir, John H., and A. E. Kelley, to Union Oil Co. of California. Hydrocracking process startup. 3,308,054, 3-7-67, Cl. 208—89.

Duis, Herward, and P. Lopata, to Joh. Kleinewefers Söhne. Apparatus for passing materials therethrough in a pressure-tight manner, especially textiles in the form of wide webs and also in the form of strands. 3,343,379, 9-26-67, Cl. 68—5.

Duisburger Kupferhutec: *See*—
Junghanss, Helmut. 3,353,950.

Duitsman, Kenneth. Divided food service tray. 3,342,397, 9-19-67, Cl. 229—2.5.

Du Kane Corp.: *See*—
Smithberg, Floyd E., and Anderson. 3,338,367.
Smithberg, Floyd E., and Supitilov. 3,306,989.
Supitilov, Michael C. 3,340,625.

Duke, Angus J.: *See*—
Cameron, Grant M., and Duke. 3,352,810.

Duke, Bruce W.: *See*—
Dyer, Hugh N., Sprague, Duke, Marshall, and Henderson. 3,334,041.

Duke, Edward D.: *See*—
Hermiz, Ramiz Y., and Duke. 3,325,925.

Duke, James B.: *See*—
Greene, Ernest W., and Duke. 3,314,537.
Jacobs, Daniel A., and Duke. 3,313,492.

Duke, James B., to Minerals & Chemicals Philipp Corp. Method of reducing clay viscosity. 3,326,705, 6-20-67, Cl. 106—72.

Duke, James B., to Minerals & Chemicals Philipp Corp. Method for improving the brightness of clay. 3,353,668, 11-21-67, Cl. 209—10.

Duke, June T.: *See*—
Prem, Dorothy C., Duke, and Greene. 3,314,910.

Duke Mfg. Co.: *See*—
Johnson, James M. 3,356,085.

Duke, Roy B., Jr., and M. A. Perry, to Eastman Kodak Co. Unsaturated polyesters having branched structures. 3,320,336, 5-16-67, Cl. 260—861.

Duke, Roy B., Jr., M. A. Perry, and H. N. Wright, Jr. to Eastman Kodak Co. Manufacture of neopentyl glycol and isobutanol. 3,340,312, 9-5-67, Cl. 260—635.

Duke University: *See*—
Rosett, Theodore. 3,298,411.

Dulaney, Clarence L.: *See*—
Brierley, Ronald H., Dulaney, and Davenport. 3,306,844.

Dulhunty, Philip W. Aerial navigation device. 3,353,274, 11-21-67, Cl. 33—107.

Dulieu, Raoul. Device for handling elongate objects. 3,329,255, 7-4-67, Cl. 198—170.

Dulis, Edward J.: *See*—
Kasak, August, Dulis, and Chandhok. Re. 26,225.

Dulis, Edward J., to Crucible Steel Co. of America. Age-hardenable austenitic stainless steel. 3,340,046, 9-5-67, Cl. 75—126.

Dulis, Edward J., and A. Kasak, to Crucible Steel Co. of America. Use of cold-formable austenitic stainless steel for valves for internal-combustion engines. 3,303,023, 2-7-67, Cl. 75—128.

Dull, Thomas J.: *See*—
Goldmeyer, Clifford, and Dull. 3,304,404.
Goldmeyer, Clifford, and Dull. 3,316,944.
Goldmeyer, Clifford, and Dull. 3,348,583.

Dully, Floyd L., to General Motors Corp. Wheel cover. 3,317,248, 5-2-67, Cl. 301—37.

Dully, Floyd L., and A. J. Maletzke, to General Motors Corp. Wheel cover. 3,348,885, 10-24-67, Cl. 301—37.

Dulmage, Fred C., to The Dow Chemical Co. Equipment and method of controlled peripheral shrink. 3,324,625, 6-13-67, Cl. 53—42.

Dulmage, William J., W. A. Light, and S. S. Sweet, to Eastman Kodak Co. Heat-sensitive elements for use in thermography. 3,342,623, 9-19-67, Cl. 117—36.1.

Dumas, Charles A.: *See*—
Fisher, Harland S., and Dumas. 3,340,591.
Zwarycz, Michael, and Dumas. 3,348,525.

Dumas, Roger, to Societe Anonyme Simca Automobiles. Vehicle bodies. 3,328,069, 6-27-67, Cl. 296—65.

Dumbgen, Gerd: *See*—
Haul, Robert, and Dumbgen. 3,299,713.

Dumbovich, Boris: *See*—
Toldy, Lajos, Borsl, Fekete, and Dumbovich. 3,325,486.

Dumm, Grace E.: *See*—
Dumm, Robert P., and G. E. 3,339,888.

Dumm, Robert P., deceased, by G. E. Dumm, administratrix, to Pacific Valves, Inc. Cryogenic globe valve with extended body. 3,339,888, 9-5-67, Cl. 251—367.

Dummett, George A., to The A.P.V. Co. Ltd. Steam heating of liquids. 3,314,664, 4-18-67, Cl. 261—159.

Dummler, William J., to Motor Guard Corp. Filter unit with radially compressed element. 3,317,045, 5-2-67, Cl. 210—130.

Dummler, William J., to Motor Guard Corp. Filter unit with axially separable housing. 3,317,053, 5-2-67, Cl. 210—439.

Dumont, Louis, and A. P. Lacombe, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Ball-and-socket pipe joints, and applications thereof. 3,357,723, 12-12-67, Cl. 285—263.

Dumpis, Janis, to Champ-Items, Inc. Idler arm repair kit. 3,305,281, 2-21-67, Cl. 308—36.1.

Dumpis, Janis, to Champ-Items, Inc. Method of making sealed prelubricated preloaded bearings. 3,305,617, 2-21-67, Cl. 264—242.

Dumpis, Janis, to Champ-Items, Inc. Idler arm replacement bearing. 3,307,888, 3-7-67, Cl. 308—71.

Dumpy Co., Inc.: *See*—
Stevens, James H. and N. J. 3,308,911.

Dun, Alan, and D. B. Fox, to Monsanto Chemicals (Australia) Ltd. Color modification of cobalt-containing cured polyester resins. 3,297,788, 1-10-67, Cl. 260—863.

Dun, Angus, Jr. Target and backing member therefor. 3,353,827, 11-21-67, Cl. 273—102.1.

Dunagan, Kenneth M.: *See*—
Stockton, George S., and Dunagan. 3,295,219.

Dunalski, Raymond M., and H. D. Snively, to General Electric Co. Dynamoelectric machine having concentric rotors with an intermediate stator. 3,308,318, 3-7-67, Cl. 310—114.

Dunand, Guy, 50% to L. Christin. Hive. 3,343,186, 9-26-67, Cl. 6—1.

Dunavan, Russell N. Safety signal system for motor vehicles. 3,359,540, 12-19-67, Cl. 340—72.

Dunbar, Joseph E., to The Dow Chemical Co. Thioethyl thiolsulfonates. 3,337,599, 8-22-67, Cl. 260—453.

Dunbar, Joseph E., to The Dow Chemical Co. β,β'-Bis(substituted sulfonylthio) compounds. 3,338,945, 8-29-67, Cl. 260—453.

Dunbar, Joseph E., to The Dow Chemical Co. β,β',β''-Tris(methylsulfonylthio)triethylamine. 3,338,946, 8-29-67, Cl. 260—453.

Dunbar, Joseph E., to The Dow Chemical Co. Oxacyclobutane bis(thiosulfonates). 3,346,592, 10-10-67, Cl. 260—333.

Dunbar, Robert A., to General Electric Co. Apparatus for converting single phase to multiphase alternating current. 3,328,660, 6-27-67, Cl. 318—165.

Dunbar, Robert B.: *See*—
Williams, Stanley E., Dunbar, and Rademaker. 3,352,746.

Duncan, Archie D., Jr.: *See*—
Felton, Joseph B., Jr., Turner, Duncan, Funderburk, and Bart. 3,311,033.
Felton, Joseph B., Jr., Turner, Duncan, Funderburk, and Bart. 3,322,318.

Duncan, Charles S., and G. W. Wilson, to Westinghouse Electric Corp. Joining of thermally conductive contact members to thermoelectric bodies. 3,330,029, 7-11-67, Cl. 29—573.

Duncan, Clifford E., to Coin Acceptors Inc. Anti-tilt means for coin testing and selecting apparatus. 3,298,492, 1-17-67, Cl. 194—99.

Duncan, David L.: *See*—
Kappelmann, Benjamin O., and Duncan. 3,333,557.

Duncan, Douglas W., C. C. Walden, and P. C. Trussell, to British Columbia Research Council. Accelerated microbiological ore extraction process. 3,305,353, 2-21-67, Cl. 75—101.

Duncan Econotrol, Inc.: *See*—
Duncan, James L. 3,317,692.

Duncan, Edward T., to Products Research Associates, Inc. Lamp dimmer. 3,300,711, 1-24-67, Cl. 323—22.

Duncan, Edward T., to The Maintenance Co., Inc. Emergency power supply. 3,324,304, 6-6-67, Cl. 307—66.

Duncan Electric Co., Inc.: *See*—
Brown, Robert A. 3,325,732.
Pitt, Paul E. 3,311,824.

Duncan, Emmett B.: *See*—
Russey, Edward S., and Duncan. 3,355,909.

Duncan, Emmett B., to Borg-Warner Corp. Axial locking clutch. 3,305,061, 2-21-67, Cl. 192—114.

Duncan, Gordon E.: *See*—
Johnston, George F., and Duncan. 3,346,061.

Duncan, Howard W. Menstrual cycle programming device. 3,330,060, 7-11-67, Cl. 40—107.

Duncan, Jack E., to Packaging Corp. of America. Container and blank therefor. 3,310,221, 3-21-67, Cl. 229—37.

Duncan, James E., to Pittsburgh Plate Glass Co. Neutral brown heat absorbing glass composition. 3,296,004, 1-3-67, Cl. 106—52.

Duncan, James E., and J. E. Cooper, to Pittsburgh Plate Glass Co. Bronze-smoke ophthalmic glass composition. 3,296,005, 1-3-67, Cl. 106—52.

Duncan, James H., and C. J. Kraus, to Air-O-Fan Products Corp. Symmetrizing bipivotal coupling device. 3,311,185, 3-28-67, Cl. 180—14.

Duncan, James K., to E. K. Zitzewitz, R. Gurley, E. W. O'Shaughnessy, T. G. Lowry, and J. K. Duncan, co-partners, d.b.a. Duncan Research. Apparatus for precision fiberization. 3,306,722, 2-28-67, Cl. 65—12.

Duncan, James L., to Duncan Econotrol, Inc. Ambient temperature-modified temperature-altering control mechanism. 3,317,692, 5-2-67, Cl. 200—136.

Duncan, James W., to Stencel Aero Engineering Corp. Pyrotechnic initiators. 3,356,025, 12-5-67, Cl. 102—39.

Duncan, John M., W. L. Sprague, and J. L. Decker, to General Motors Corp. Data collecting and recording device. 3,303,471, 2-7-67, Cl. 340—172.5.

Duncan, Leon L. Method and apparatus for producing a decorative effect on stainless steel and other surfaces. 3,305,916, 2-28-67, Cl. 29—90.

Duncan, Leon L., to W. J. King. Total disposal unit and method. 3,319,588, 5-16-67, Cl. 110—9.

Duncan, Leon L. Disposal unit and method. 3,320,907, 5-23-67, Cl. 110—9.

Duncan, Loney R., Jr., and J. J. Smisloff, to Collins Radio Co. Parallel resonance discriminator including an inductively coupled tuned circuit. 3,305,776, 2-21-67, Cl. 324—57.

Duncan, Rea E. Shade control. 3,304,992, 2-21-67, Cl. 160—32.

Duncan Research: *See*—
Duncan, James K. 3,306,722.

Duncan, Richard A., to The Thomson Machinery Co., Inc. Device for dry separating cut sugar cane. 3,358,830, 12-19-67, Cl. 209—3.

Duncan, Richard S.: *See*—
Peck, William S., Duncan, and Williams. 3,296,085.

Duncan, Robert C.: *See*—
Lucas, Malcom B., Duncan, and Sedlin. 3,322,594.

Duncan, Robert C., and N. L. Baker, to The Procter & Gamble Co. Disposable diaper. Re. 26,151, 1-31-67, Cl. 128—284.

Duncan, Robert H., and D. W. Orahood, to International Telephone and Telegraph Corp. Selector for selecting the best responding one of a plurality of equal rank devices. 3,328,697, 6-27-67, Cl. 325—304.

Duncan, Robert J.: *See*—
McCarty, Lourdes V., and Duncan. 3,295,586.

Duncan, Robert J., and W. A. Biermann, to Controls Co. of America. Viscosity compensating fuel control. 3,349,804, 10-31-67, Cl. 138—45.

Duncan, Robert W. Envelope. 3,295,746, 1-3-67, Cl. 229—85.

Duncan, Sydney F., to Farr Co. Method for manufacturing a pleated air filter cartridge. 3,321,345, 5-23-67, Cl. 156—91.

Duncan, Thomas W., and C. N. Perin, to Design and Mfg. Corp. Dishwashing machine. 3,310,243, 3-21-67, Cl. 241—101.

Duncan, Thomas W., and C. N. Perin, to Design and Mfg. Corp. Dispensing mechanism. 3,344,957, 10-3-67, Cl. 222—70.

Duncan, Walter L. Flashlight. 3,299,262, 1-17-67, Cl. 240—10.6.

Duncan, William A., to Union Carbide Canada Ltd. Device for promoting the removal of water from a paper-making pulp slurry. 3,351,524, 11-7-67, Cl. 162—374.

Duncan, William H., and R. F. Cooper, to Collapsible Pallet Co. Collapsible cargo pallet with removable top. 3,327,654, 6-27-67, Cl. 108—53.

Duncan, William J. Fishing pole holder. 3,341,157, 9-12-67, Cl. 248—42.

Duncanson, Leonard A., and H. G. Lawley, to Imperial Chemical Industries Ltd. Production of oxygen-containing organic compounds by the co-oxidation of cycloparaffins and aldehydes. 3,351,657, 11-7-67, Cl. 260—530.

Duncombe, Edward: *See*—
Kealy, Wellesley A., Smart, and Duncombe. 3,296,864.

Dundam, John. Egg grader. 3,308,947, 3-14-67, Cl. 209—123.

Dundas, Robert H., and A. E. Gosselin, to Southern California Edison Co. Flue gas process. 3,310,365, 3-21-67, Cl. 23—2.

Dundee Cement Co.: *See*—
Ostberg, Werner. 3,322,416.

Dundon, John P.: *See*—
Van Loo, William J., Jr., and Dundon. 3,334,373.

Dundon, John P., to American Cyanamid Co. Process for preparing polymethylol ureas. 3,335,113, 8-8-67, Cl. 260—69.

Dundón, Thomas M., and J. M. R. Frappier, to Honeywell Inc. Sonic transducer. 3,331,970, 7–18–67, Cl. 310—9.1

Dunfee, Danny D.: *See*—
Holter, William H., Dunfee, and Webster. 3,352,244.
Oss, George K., Dunfee, and Silver. 3,331,324.

Dungard, Inc.: *See*—
Dunning, Fred R. 3,319,261.

Dungler, Jullen, to Artos Maschinenbau, Dr.-Ing. Meier-Windhorst. Apparatus for thermic treatment of textile materials. 3,327,367, 6–27–67, Cl. 26—60.

Dunha, Milton L., Jr., and F. M. O'Connor, to Union Carbide Corp. Process for plant defoliation. 3,359,092, 12–19–67, Cl. 71—70.

Dunham, Philip N.: *See*—
Groves, E. Stuart, and Dunham. 3,331,425.

Dunham, Robert W.: *See*—
Jorgensen, George N., Stanback, and Dunham. 3,354,357.

Dunham White and Co. Ltd.: *See*—
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Dunholter, Harry E., to Owens-Illinois, Inc. Closed container with vapor phase corrosion inhibitor. 3,356,280, 12–5–67, Cl. 229—37.

Dun-Hot, Inc.: *See*—
Dunn, Richard P. 3,359,886.

Dunkel, Morris: *See*—
Luloff, Jerome S., and Dunkel. 3,299,160.

Dunkel, Morris, to Universal Oil Products Co. Polymeric reaction products derived from polyhalopolyhydrodimethanonaphthalene dicarboxylic acids or anhydrides thereof. 3,297,606, 1–10–67, Cl. 260—22.

Dunkel, Morris, to Universal Oil Products Co. Derivatives of bicycloheptane ketones and method for preparing same. 3,326,940, 6–20–67, Cl. 260—346.3.

Dunkel, Morris, to Universal Oil Products Co. Preparation of unsaturated ketones. 3,326,978, 6–20–67, Cl. 260—593.

Dunkel, Morris, to Universal Oil Products Co. Aryl, alkaryl and aralkyl esters of halo-substituted polyhydrodialkanonaphthalenedicarboxylic acids and a method for the preparation thereof. 3,359,299, 12–19–67, Cl. 260—468.

Dunkel, Morris, and D. J. Eckhardt, to Universal Oil Products Co. Treatment of fibrous materials with certain amino compounds and certain polyacid polyhalides. 3,305,-391, 2–21–67, Cl. 117—141.

Dunkelman, Robert L. Steam cabinet for food products. 3,320,945, 5–23–67, Cl. 126—369.

Dunker, John S. Implement carrier. 3,325,184, 6–13–67, Cl. 280—414.5.

Dunki, Walter, to Escher Wyss Aktiengesellschaft. Vehicle brake part. 3,318,423, 5–9–67, Cl. 188—251.

Dunkin, William H. Exterior anchoring apparatus for surface sheet. 3,309,822, 3–21–67, Cl. 52—22.

Dunkle, Theodore M.: *See*—
Twining, Edward M., Dunkle, and Campbell. 3,337,708.

Dunklin, Edward W., to Culligan Inc. Method of removing entrapped gas from an ion exchange resin bed. 3,299,617, 1–24–67, Cl. 55—37.

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Dunlap, Harlan F., E. C. Evans, W. G. S. Fort, W. Smith, and H. A. Kermicle, to United States of America, Atomic Energy Commission. Control system for magnetic suspension of centrifuge rotors. 3,307,884, 3–7–67, Cl. 308—10.

Dunlap, Henry F.: *See*—
Styring, Ralph E., Dunlap, and Rogers. 3,344,583.

Dunlap, Isaac R., to Johnson & Johnson. Process of impregnating an instantaneously wettable paper with a rubber latex. 3,345,204, 10–3–67, Cl. 117—102.

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Greer, Tommy D., and Dunlap. 3,351,182.

Dunlap, Norman, to The Minster Machine Co. Compound bearing. 3,301,611, 1–31–67, Cl. 308—5.

Dunlap, Peggy M.: *See*—
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Dunlap, Peggy M., to Mobil Oil Corp. Dual function aqueous solution flow in permeable earth formations. 3,315,744, 4–25–67, Cl. 166—9.

Dunlap, Robert B.: *See*—
Kamborian, Jacob S., Becka, and Dunlap. 3,332,096.
Kamborian, Jacob S., Dunlap, and Benken. Re. 26,200.

Dunlea, John V., Jr. Method of bulk rubbish disposal. 3,330,088, 7–11–67, Cl. 53—24.

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Gager, Robert M. 3,334,256.
Perry, John T., and Cooney. 3,319,136.

Dunlop, Andrew P., D. G. Manly, and F. J. Rice, Jr., to The Quaker Oats Co. Hydrogenation of alpha, beta-unsaturated aldehydes. 3,341,610, 9–12–67, Cl. 260—638.

Dunlop, Andrew P., and G. W. Huffman, to The Quaker Oats Co. Purification of furfuryl alcohol-derived levulinic esters. 3,358,014, 12–12–67, Cl. 260—483.

Dunlop, Andrew P., and E. Sherman, to The Quaker Oats Co. Process for recovering polytetramethylene ether glycol. 3,358,042, 12–12–67, Cl. 260—615.

Dunlop, Arthur K., to Shell Oil Co. Extraction of hydrazine from aqueous solution using a fluorinated alcohol. 3,321,-284, 5–23–67, Cl. 23—312.

Dunlop, Richard G., to Evans Products Co. Freight bracing apparatus. 3,345,956, 10–10–67, Cl. 105—369.

Dunlop Rubber Co. Ltd.: *See*—
Adamek, Stephen, and Wood. 3,325,456.
Adamek, Stephen, and Wood. 3,359,244.
Adams, Richard A. 3,318,420.
Angerer, Gerd, Klotzer, and Kern. 3,342,660.
Baxendale, Norman G. 3,351,508.
Beebee, Brian H. 3,321,806.
Beebee, Brian H., and Hes. 3,314,843.
Belart, Juan, Ostwald, and Schlor. 3,314,506.
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Blanchard, Allan F., and Palmer. 3,320,204.
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Green, Harold H., and Robinson. 3,300,874.
Hogg, Wilfred H., Hartle, and Merriman. 3,352,803.
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Merriman, Peter, Simcox, and Newham. 3,300,421.
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Powell, Ernest F. 3,321,346.
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Dunn, Albert, and L. Russell, to Fiber Industries, Inc. Annular spinning apparatus. 3,307,216, 3–7–67, Cl. 18—8.

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Dunn, Cecil G., to General Electric Co. Method of making anodized tantalum foil. 3,335,073, 8–8–67, Cl. 204—29.

Dunn, Cecil G., and D. A. Vermilyea, to General Electric Co. Process for producing tantalum foil for capacitors. 3,332,859, 7–25–67, Cl. 204—32.

Dunn, Cecil G., and H. F. Webster, to General Electric Co. Method for producing tantalum sheet. 3,335,037, 8–8–67, Cl. 148—13.1.

Dunn, Crawford B., G. G. Crawford, and E. G. Weston, to Aleon Laboratories, Inc. Cryogenic surgical instrument. 3,343,544, 9–26–67, Cl. 128—303.1.

Dunn, Edward J. Jr., to Westinghouse Electric Corp. Purification of alloys. 3,309,194, 3–14–67, Cl. 75—52.

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Strasser, Joseph P., and Dunn. 3,338,858.

Dunn, Elman R.: *See*—
Price, Ralph E., and Dunn. 3,299,581.

Dunn, Elman R., to Landis Tool Co. Feed mechanism for grinding machine. 3,309,820, 3–21–67, Cl. 51—165.

Dunn, Elman R., to Landis Tool Co. Abrasive disc spindle mounting. 3,348,341, 10–24–67, Cl. 51—111.

Dunn, Frank R.: *See*—
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Dunn, George H., Jr., to Rexall Drug and Chemical Co. Apparatus for feeding flowable solid materials to a delivery device. 3,307,748, 3–7–67, Cl. 222—227.

Dunn, George L., to Smith Kline & French Laboratories. Novel nitropyrrylheterocyclic derivatives. 3,309,378, 3–14–67, Cl. 260—304.

Dunn, George L., to Smith Kline & French Laboratories. Nitrothiophene compounds. 3,318,878, 5–9–67, Cl. 260—240.

Dunn, George L., to Smith Kline & French Laboratories. Substituted 2-(5-nitro-2-thienyl)-benzimidazoles. 3,322,783, 5–30–67, Cl. 260—309.2.

Dunn, James H.: *See*—
Gertsma, Laurence W., and Dunn. 3,295,556.

Dunn, John H., and D. D. Howard. Complete simplified homing system for aircraft. 3,351,944, 11–7–67, Cl. 343—113.

Dunn, John K., 85% to said Dunn, and 15% to M. J. Fried. Miniaturized phonograph. 3,360,269, 12–26–67, Cl. 274—9.

Dunn, John P., to Corning Glass Works. Seam finishing. 3,350,815, 11–7–67, Cl. 51—7.

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Dunn, Lewis R., and A. J. Zigment, to Armstrong Cork Co. Roofing installation. 3,328,232, 6–27–67, Cl. 161—205.

Dunn, Lloyd G., to Aluminum Co. of America. Container. 3,335,899, 8–15–67, Cl. 220—54.

Dunn, Lloyd G., to Aluminum Co. of America. Composite article and method. 3,357,388, 12–12–67, Cl. 113—121.

Dunn, Lyman D., and S. Gembicki, to Marlan Co. Label laminator device. 3,340,130, 9–5–67, Cl. 156—552.

Dunn, Maurice B., to Memco Machinery Corp. Method and apparatus for making cartons from blanks. 3,342,114, 9–19–67, Cl. 93—51.

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Dunn, Ralph. Automatic lighting and warning system. 3,300,755, 1–24–67, Cl. 340—52.

Dunn, Richard M., to Eastman Mfg. Co., Inc. Bobbin and pole construction. 3,339,097, 8–29–67, Cl. 310—194.

Dunn, Richard P., to Dun-Hot, Inc. Popcorn popper. 3,359,-886, 12–26–67, Cl. 99—238.3.

Dunn, Robert O., to Phillips Petroleum Co. Separation of chloronitrobenzene isomers by crystallization and fractionation. 3,311,666, 3–28–67, Cl. 260—646.

Dunn, Roger S., and C. S. Den-Brinker, to Texas Instruments Inc. Current steered logic circuits. 3,328,603, 6–27–67, Cl. 307—88.5.

Dunn, Stephen T. Movable pocketed surface projectile toy. 3,295,852, 1–3–67, Cl. 273—115.

Dunn, Thomas J. Vehicle with selectively changeable work implements. 3,329,225, 7–4–67, Cl. 180—1.

Dunn, Thomas J. Scraping attachment. 3,332,159, 7–25–67, Cl. 37—42.

Dunn, Victor R. Self locking strap. 3,311,957, 4–4–67, Cl. 24—21.

Dunn, Victor R. Pipe jacket construction. 3,347,276, 10–17–67, Cl. 138—166.

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Dunn, William E., to Blaw-Knox Co. Continuous crystallizers. 3,304,734, 2–21–67, Cl. 62—123.

Dunn, William L. R., to Philip Morris Inc. Smoking test apparatus. 3,298,115, 1–17–67, Cl. 35—9.

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Dunnavant, William R., and R. A. Botham, to The Standard Oil Co. Film-forming acrylonitrile polymer and latex thereof. 3,351,602, 11–7–67, Cl. 260—29.6.

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Dunnigan, William O., to Bell Telephone Laboratories, Inc. Time compressor system employing means to selectively alter time-compression factor without changing length of delay medium. 3,321,710, 5–23–67, Cl. 328—55.

Dunning, Edward B., D. P. Gilboe, and G. P. Shulman, to Archer-Daniels-Midland Co. Process for insolubilizing protein. 3,320,078, 5–16–67, Cl. 106—124.

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Dunning, Ranald G., to Chemirad Corp. Production of alkylene imines. 3,326,897, 6–20–67, Cl. 260—239.

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Dunton, Thornley A., to The International Nickel Co., Inc. Iron powder and core with controlled permeability coefficient. 3,348,982, 10–24–67, Cl. 148—105.

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Freed, Jacob B. 3,326,519.
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Dürler, Jacques, to Brevets Aero-Mecaniques S.A. Spinning machines, and in particular to twisting frames. 3,306,021, 2-28-67, Cl. 57—83.

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Anderson, Vern A., and Durney. 3,318,166.

Durney, George P., to United States of America, Navy. Shoulder seal between a protective suit and helmet. 3,351,056, 11-7-67, Cl. 128—142.5.

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Du Rocher, Gideon A., and W. F. Swisher, to Essex Wire Corp. Center biased electric switch for a reversible D.C. motor. 3,333,067, 7-25-67, Cl. 200—6.

Durocher, Hector R., to Sanders Associates, Inc. Self-decoding inline readout. 3,343,451, 9-26-67, Cl. 88—24.

Durocher, Thomas E., to The Dow Chemical Co. Sulfonation process. 3,336,271, 8-15-67, Cl. 260—79.3.

Du Rose, Arthur H., to Kewanee Oil Co. Corrosion resistant coated articles and processes of production thereof. 3,355,267, 11-28-67, Cl. 29—194.

Du Rose, Arthur H., and W. J. Pierce, to Kewanee Oil Co. Three-layer nickel laminate. 3,355,263, 11-28-67, Cl. 29—183.5.

Du Rose, Arthur H., and K. S. Willson, to Kewanee Oil Co. Corrosive protected composite having triplated nickel deposits and method of making. 3,355,268, 11-28-67, Cl. 29—196.6.

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Duroncboux, Olivier. Device for storing kinetic energy, usable as a torsional vibration damper and coupler. 3,312,125, 4-4-67, Cl. 74—572.

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Brynjolfsson, Wilfred, and Bartlett. 3,300,939.

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Durr, Helmut E., and F. Wahl, to Western Electric Co., Inc. Apparatus for preparing insulating wires. 3,353,571, 11-21-67, Cl. 140—1.

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Moxon, Harry, and Durrant. 3,303,644.

Durrant, William H.: *See*—
Crowder, Jeffrey L., and Durrant. 3,348,790.

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Durrwachter, William E. Split pole rotor for synchronous motors. 3,333,173, 7-25-67, Cl. 318—191.

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Berger, Frank M., Dursch, and Ludwig. 3,342,678.

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Durst, Paul T., and R. J. Sutton, to General Electric Co. Temperature control device. 3,354,281, 11-21-67, Cl. 200—140.

Durst, Richard R., and W. O. Phillips, to The General Tire & Rubber Co. Polymeric titanium compounds Ti-Al complexes and their use as catalysts. 3,312,637, 4-4-67, Cl. 260—2.

Durst, Richard R., and W. O. Phillips, to The General Tire & Rubber Co. Epoxide polymerization catalysts, their preparation and their use. 3,313,740, 4-11-67, Cl. 260—2.

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Duschinsky, Robert, and M. Hoffer, to Hoffmann-La Roche, Inc. N-mono-acyl-5-fluorocytosine derivatives and process. 3,309,359, 3-14-67, Cl. 260—211.5.

Duschinsky, Robert, and T. F. Gabriel, to Hoffmann-La Roche Inc. Fluorinated imidazo[1,2-c] pyrimidines and pyrimido [1,2-c] pyrimidines. 3,320,256, 5-16-67, Cl. 260—256.4.

Duschinsky, Robert, and T. F. Gabriel, to Hoffmann-La Roche, Inc. Tri-lower alkyl-silyl - 5-fluoropyrimedines. 3,354,160, 11-21-67, Cl. 260—251.

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Dusenbury, Joseph H., and S. G. Thompson, to Deering Milliken Research Corp. Apparatus for producing stretch fabrics. 3,336,644, 8-22-67, Cl. 26—18.6.

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Dussel, Christian G. L. Process of manufacturing artificial stone elements. 3,318,984, 5-9-67, Cl. 264—77.

Dussy, Paul, J. Ammann, and W. Bossard, to J. R. Geigy A.-G. Pyrimidyl azo dyestuffs. 3,342,798, 9-19-67, Cl. 260—146.

Dussy, Paul, M. Reding, and W. Bossard, to R. Geigy, A.G. 2,6-dihalo-pyrimidine-4-carboxamido dyestuffs. 3,301,843, 1-31-67, Cl. 260—146.

Dusterhoft, William F. Telephone wall cabinet. 3,305,284, 2-21-67, Cl. 312—242.

Dustin, Daniel S., and J. W. Sigan, to Archer-Daniels-Midland Co. Method of inhibiting bacteria in brine systems. 3,300,408, 1-24-67, Cl. 210—64.

Duszo, John P., J. P. Joseph, and S. Bernstein, to American Cyanamid Co. Novel substituted 21-nor-4-20(22), 23 steroidal dienes. 3,351,638, 11-7-67, Cl. 260—397.1.

Duszka, Stephen. Load shifting mechanism. 3,346,132, 10-10-67, Cl. 214—516.

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Lind, Wallace E., Clearman, Dutcher, and Johnson. 3,353,553.

Du Temple de Rougemont, Godefroy M. C., and M. M. Stapfer. Slidable switch actuator contacts and structure associated therewith. 3,352,980, 11-14-67, Cl. 200—16.

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Dutt, William H., and R. R. Kelleher, deceased (by M. V. Kelleher, executrix), to Fabric Research Laboratories, Inc. Composite seam member. 3,324,516, 6-13-67, Cl. 24—33.

Dutton, Frank A., to The Marconi Co. Ltd. Sidelobe suppressing antenna system comprising directional coupler and phase control means for beam shaping. 3,325,816, 6-13-67, Cl. 343—777.

Dutton, Harold R., and M. A. Ellers, to General Motors Corp. Shock absorber. 3,313,536, 4-11-677, Cl. 267—64.

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Duval Corp.: *See*—
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Duval D'Adrian, Vincent L. High alkali earth oxide glass bead composition. 3,306,757, 2-28-67, Cl. 106—54.

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Duvall, David J.: *See*—
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Duveau, Jacques. Steam engines. 3,357,314, 12-12-67, Cl. 91—263.

Duvivier, Charles P., and P. Lebel, to Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber Colombes. Heat-resistant rubber products. 3,335,843, 8-15-67, Cl. 198—193.

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Buntschuh, Henry C., and Duvoisin. 3,332,144.

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Duwez, Pol E., to California Institute Research Foundation. Method for making a novel solid metal alloy and products thereby. 3,297,436, 1-10-67, Cl. 75—134.

Duxbury, Frederick K., and D. H. Johnson, to Imperial Chemical Industries Ltd. Press for preparing caprolactam. 3,326,899, 6-20-67, Cl. 260—239.3.

Duynstee, Eduard F. J., J. A. Bigot, and J. L. J. P. Hennekens, to Stamicarbon N.V. Conversion of cyclo-alkane carboxylic acid to cyclo-alkanone. 3,349,131, 10-24-67, Cl. 260—586.

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Alburn, Harvey E., and Dvonch, 3,325,495.

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Dvorak, Joseph J., and R. Ehrlich, to Thiokol Chemical Corp. Process for preparing alkali metal aluminum hexahydrides. 3,357,806, 12-12-67, Cl. 23—365.

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Dvorkin, Harry. Air filter for inflatable tires. 3,352,091, 11-14-67, Cl. 55—274.

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Dwyer, James G., and Locke. 3,335,694.

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Dwyer, James G., and J. P. Locke, to F. W. Dwyer Mfg. Co. Rotary flow control valve and method of manufacture. 3,314,644, 4-18-67, Cl. 251—309.

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Dyben, Jerry F., to Communications Research, Inc. Capacitance detector having a transmitter connected to one plate and a receiver connected to another plate. 3,341,774, 9-12-67, Cl. 324—61.

Dybvig, Douglas H., to Minnesota Mining and Mfg. Co. Chlorofluorobis(difluoramino) methane. 3,358,028, 12-12-67, Cl. 260—583.

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Dyck, Walter E., to Pittsburgh Plate Glass Co. Process for removing float glass carry-over on steel rolls. 3,337,320, 8-22-67, Cl. 65—27.

Dye, Clyde V. End gate throw latch mechanisms. 3,298,728, 1-17-67, Cl. 292—62.

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Dye, Russell V. Lubrication apparatus. 3,339,739, 9-5-67, Cl. 210—168.

Dyer, Andrew L. Method for cleaning venetian blinds. 3,314,819, 4-18-67, Cl. 134—6.

Dyer, Arthur M. Water volume control for water closet. 3,350,723, 11-7-67, Cl. 4—57.

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Dyer, Daniel P., Jr., to The Budd Co. Torque sensing wheel structure. 3,298,223, 1-17-67, Cl. 73—128.

Dyer, Daniel P., Jr., to The Budd Co. Torque-tension testing apparatus and method for nut-bolt assemblies. 3,354,705, 11-28-67, Cl. 73—95.

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Dyer, Richard F., and J. M. Wininger, Jr., to Eastman Kodak Co. Method of making a fibrous filter product. 3,336,174, 8-15-67, Cl. 156—167.

Dyer, Richard F., and P. Gallagher, to Eastman Kodak Co. Tow interlacing apparatus. 3,341,912, 9-19-67, Cl. 28—1.

Dyer, Richard W., to Western Electric Co., Inc. Optical system for checking registration. 3,308,711, 3-14-67, Cl. 88—14.

Dyer, Robert K., to Sinclair Research, Inc. Apparatus for drilling core samples. 3,329,220, 7-4-67, Cl. 175—94.

Dyer, Robert K. Polished rod protector. 3,353,606, 11–21–67, Cl. 166—84.

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Dygert, George C., E. E. Walters, and R. H. Smith, to Unistrut Corp. Adjustable clamp fitting. 3,356,395, 12–5–67, Cl. 287—54.1.

Dygert, Justin C., and A. L. Fricke, to Shell Oil Co. Process for preparing uniform melt dispersion of blowing agent and polymer and its use in making foamed products. 3,310,617, 3–21–67, Cl. 264—53.

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Dyke, Wilfred J. C., to Evans Medical Ltd. Injectable aqueous solutions containing a protamine-active compound. 3,322,629, 5–30–67, Cl. 167—65.

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Dykeman, Howard E., to Dravo Corp. Bucket conveyor. 3,337,025, 8–22–67, Cl. 198—152.

Dykes, Bruce G., to Container Corp. of America. Reclosable carrier-dispensing container. 3,335,940, 8–15–67, Cl. 229—51.

Dykes, Hiram W. H., to United States of America, Army. Recovery or diphenylamines and resorcinols by thin-layer chromatography methods. 3,335,185, 8–8–67, Cl. 260—576.

Dykes, Ralph E., and R. M. Mitchell, to General Foods Corp. Tetrahedral packaging means and method of making same. 3,347,363, 10–17–67, Cl. 206—65.

Dykes, Reggie D. Chess type game for three players. 3,341,205, 9–12–67, Cl. 273—131.

Dykes, Willie M., Jr. Brush applicator for shaving cream dispenser. 3,299,465, 1–24–67, Cl. 15—552.

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Dynalectron Corp.: *See*—
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Edinger, Ladislav L., and I. Halasz. Self-illuminating tongue depressor with detachable tongue blade. 3,349,764, 10-31-67, Cl. 128—16.
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Edlich, Richard F. Electrocautery process. 3,336,916, 8-22-67, Cl. 128—2.
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Edling, Ellsworth A., and R. P. McKenna. Motor using nuclear charged particles. 3,302,024, 1-31-67, Cl. 250—106.
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Edmonds, James T., Jr., to Phillips Petroleum Co. Novel polymer and method of obtaining the same by polymerization of a trimethylene sulfide in presence of an alkali metal catalyst. 3,320,217, 5-16-67, Cl. 260—79.

Edmonds, James T., Jr., to Phillips Petroleum Co. Trimethylene sulfide polymers. 3,328,361, 6–27–67, Cl. 260—79.

Edmonds, James T., Jr., and H. W. Hill, Jr., to Phillips Petroleum Co. Production of polymers from aromatic compounds. 3,354,129, 11–21–67, Cl. 260—79.

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Loukes, David G., and Edwards. 3,330,637.

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Edwards, Albert J., and M. J. Healy, to Micaldon Corp. Closure cap. 3,310,192, 3–21–67, Cl. 215—46.

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Edwards, Billy M. Camping and boating outfit. 3,357,031, 12–12–67, Cl. 9—1.

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Edwards, Bryant, to Illinois Tool Works Inc. Package for dispensing articles. 3,325,000, 6–13–67, Cl. 206—56.

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Edwards, Bryant, to Illinois Tool Works Inc. Thermoplastic closure. 3,335,901, 8–15–67, Cl. 220—60.

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Edwards, Bryant, to Illinois Tool Works Inc. Method and apparatus for deep draw molding. 3,342,914, 9–19–67, Cl. 264—89.

Edwards, Bryant, to Illinois Tool Works Inc. Closure for spin sealing and coin feeding. 3,344,948, 10–3–67, Cl. 220—67.

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Edwards, Gayle D., D. M. Rice, and R. L. Soulen, to Jefferson Chemical Co., Inc. Production of rigid polyurethane foam. 3,297,597, 1–10–67, Cl. 260—2.5.

Edwards, George A., to General Motors Corp. Ball spline assembly. 3,356,424, 12–5–67, Cl. 308—6.

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Edwards, Harrison F. Transparent dial. 3,316,709, 5–2–67, Cl. 58—42.

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Edwards, Jack H., L. B. Plumb, Jr., and W. T. Wells, Jr., to Tenneco Inc. Jet sub for drilling well bores. 3,334,697, 8–8–67, Cl. 175—231.

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Edwards, James W., S. W. Mays, Jr., and H. J. Larrigan, to Monsanto Co. Semi-automatic electrostatic printing system having moving screen. 3,302,560, 2–7–67, Cl. 101—38.

Edwards, James W., S. W. Mays, and R. W. Stout, to Monsanto Co. Electrostatic printing with oscillating screen frame and dual printing at a single station. 3,302,579, 2–7–67, Cl. 101—39.

Edwards, James W., S. W. Mays, and R. W. Stout, to Monsanto Co. Electrostatic printing with rotating screen frame and plural print stations. 3,302,580, 2–7–67, Cl. 101—39.

Edwards, James W., and R. W. Stout, to Monsanto Co. Ink delivery system employing vibrating wires. 3,320,879, 5–23–67, Cl. 101—335.

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Edwards, John A., to Syntex Corp. 5β,6β-cyclo-19-nor-$\Delta^{9(10)}$-androstenes and pregnenes and process therefor. 3,354,149, 11–21–67, Cl. 260—239.55.

Edwards, John A., J. H. Fried, and J. B. Siddall, to Syntex Corp. 2β,3β-alkylidenedioxy-6-oxygenated-Δ^5-steroids and process for the preparation thereof. 3,354,152, 11–21–67, Cl. 260—239.55.

Edwards, John A., J. H. Fried, and J. B. Siddall, to Syntex Corp. 2β,3β-alkylidenedioxy-6-hydroxy-22,23-bis-norchol-7-enoic acid alkyl esters and process for the production thereof. 3,354,154, 11–21–67, Cl. 260—239.55.

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Edwards, Margaret M., to John Oster Mfg. Co. Electrical switch for food blender with improved contact detent structure. 3,299,226, 1–17–67, Cl. 200—16.

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Edwards, Miles L., to Edwards Laboratories, Inc. Double cage heart valve. 3,325,827, 6–20–67, Cl. 3—1.

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Edwards, Ray C. Thermal switch device with adjusting bolt means for the arms of the U-shaped hinge assembly. 3,310,646, 3–21–67, Cl. 200—138.

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Edwards, Raymond R., to Nuclear Science and Engineering Corp. Method of tracing iodine using I-129. 3,339,072, 8–29–67, Cl. 250—106.

Edwards, Richard A., to SCM Corp. Punching system. 3,301,477, 1–31–67, Cl. 234—107.

Edwards, Richard A., to Gardner-Denver Co. Remote control for rock drill. 3,319,725, 5–16–67, Cl. 173—157.

Edwards, Richard A., C. A. Lindberg, E. E. Reynolds, and J. R. Wilson, Jr., to SCM Corp. Program unit for printing calculator. 3,335,947, 8–15–67, Cl. 235—60.

Edwards, Rivers E. Washing machine dump valve. 3,310,063, 3–21–67, Cl. 137—216.

Edwards, Robert, and W. A. Wheatley, to Electronic Assistance Corp. Fire alarms. 3,324,464, 6–6–67, Cl. 340—227.1.

Edwards, Robert B.: *See*—
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Edwards, Roy E., to Girling Ltd. Automatic adjuster for shoe drum brakes. 3,335,822, 8–15–67, Cl. 188—79.5.

Edwards, Theodoric B., deceased, by H. M. Edwards, executrix. Powered vehicle wheel. 3,347,333, 10–17–67, Cl. 180—65.

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Edwards, William R., to United States of America, Navy. Retro eject bomb rack. 3,295,410, 1–3–67, Cl. 89—1.5.

Edwards, William R., to Esso Research and Engineering Co. Method for making a rocket and missile fuel. 3,298,948, 1–17–67, Cl. 208—66.

Edwards, William R., to Esso Research and Engineering Co. Polymer. 3,299,022, 1–17–67, Cl. 260—88.2.

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Edwards, William R., to Esso Research and Engineering Co. Soluble poly-4-methyl-1-pentene. 3,317,501, 5–2–67, Cl. 260—93.7.

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Efstathiou, Evangelos. Suds producing appliance. 3,337,192, 8–22–67, Cl. 259—23.

Eft, Neil W., and R. E. Zimmermann, to The Babcock & Wilcox Co. Blast furnace pulvernized coal firing system. 3,301,544, 1–31–67, Cl. 266—28.

Eft, Neil W., to The Babcock & Wilcox Co. Pulverizer. 3,344,998, 10–3–67, Cl. 241—103.

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Egan, Edward F. 3,350,027.
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Egan, James J. Electrocardiac instrument for testing unborn infants. 3,326,207, 6–20–67, Cl. 128—2.06.

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Eggen, Ingmar B., and R. H. Bundus, to Beatrice Foods Co. Citrate treatment of cheese with high temperature treatment. 3,297,451, 1–10–67, Cl. 99—116.

Eggen, Raymond B. Pressure booster apparatus for hydraulic brake systems. 3,332,239, 7–25–67, Cl. 60—54.5.

Eggenberger, Ulrich, to Gebrueder Buehler. Pressure casting machine having a hydraulically loadable shot unit. 3,319,701, 5–16–67, Cl. 164—315.

Eggenberger, Ulrich, to Gebruder Buhler. Mold closure apparatus. 3,327,353, 6–27–67, Cl. 18—30.

Eggenberger, Ulrich, and W. Schwertfeger, to Gebrüder Bühler. Pressure and injection moulding machine. 3,330,003, 7–11–67, Cl. 18—30.

Eggenstein, Horst, to Stadt Dusseldorf, vertreten durch den Oberstadtdirektor. Pilot flame burner, particularly for gases of low flammability. 3,315,724, 4–25–67, Cl. 158—115.

Egger, Emile, to Emile Egger & Co., AG. Pump casing. 3,316,848, 5–2–67, Cl. 103—103.

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Egger, Josef, H. Meitinger, and F. Esselborn, to The United States Time Corp. Watch indicator setting means. 3,303,641, 2–14–67, Cl. 58—85.5.

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Eggers, Carl A., to Jenkins Bros. Split sleeve plug valve having bonded polymeric material layer. 3,353,785, 11–21–67, Cl. 251—175.

Eggert, Walter S., Jr., to The Budd Co. Light weight utility vehicle. 3,323,608, 6–6–67, Cl. 180—54.

Egghart, Heinrich C., to United States of America, Army. Production of explosive azides in molten salt media. 3,345,130, 10–3–67, Cl. 23—101.

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Egglestone, Robert W., and A. S. Noell, Jr., to Combustion Engineering, Inc. Electrical motor drive with dynamic and static braking. 3,353,077, 11–14–67, Cl. 318—212.

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Elliott, Richard M., to United Shoe Machinery Corp. Pulling chuck for rivet setting tool. 3,324,700, 6–13–67, Cl. 72—391.

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Ellis, Gwynn P., and A. H. Wragg, to Benger Laboratories Ltd. 2-carboxyalkylaminocarbonyl dihydropyrano chromones. 3,322,795, 5–30–67, Cl. 260—345.2.

Ellis, Herbert B., to Aerojet-General Corp. Evaporative non-mechanical heat sink refrigeration system. 3,339,374, 9–5–67, Cl. 62—113.

Ellis, Herbert B., R. G. Peoples, H. C. Krieg, R. S. Pickford, S. W. Baker, and J. E. Tahl, to Aerojet-General Corp. Cutoff control for test rocket motor. 3,306,047, 2–28–67, Cl. 60—223.

Ellis, Herbert B., R. G. Peoples, H. C. Krieg, Jr., R. S. Pickford, S. W. Baker, and J. E. Tahl, to Aerojet-General Corp. Apparatus facilitating tests of different orifice patterns for injector plate in test rocket motor. 3,330,116, 7–11–67, Cl. 60—258.

Ellis, Hubert C., to The Ellis Drier Co. Laundry machine. 3,321,941, 5–30–67, Cl. 68—24.

Ellis, Jean J.: *See*—
Ellis, David G. 3,328,306.

Ellis, John F. G., to The British Petroleum Co. Ltd. Petroleum distillation. 3,308,060, 3–7–67, Cl. 208—364.

Ellis, John H., to The University of Kentucky Research Foundation. Means for automatically adjusting the position of sheet charts on reversible recorder drums. 3,331,080, 7–11–67, Cl. 346—125.

Ellis, John H. Automatic car wash. 3,349,783, 10–31–67, Cl. 134—45.

Ellis, John R. B., and M. F. Hughes, to Chevron Research Co. Method of carrying out exothermic vapor phase chemical reactions. 3,351,634, 11–7–67, Cl. 260—346.4.

Ellis, John T., Jr., to Ellis Fluid Dynamics Corp. Shock absorber. 3,307,842, 3–7–67, Cl. 267—1.

Ellis, John T., Jr., to Ellis Fluid Dynamics Corp. Adjustable shock absorber. 3,340,965, 9–12–67, Cl. 188—97.

Ellis, Lonnie T. Puzzle game apparatus. 3,359,004, 12–19–67, Cl. 273—153.

Ellis, Luke C. Traction apparatus. 3,353,532, 11–21–67, Cl. 128—75.

Ellis, Myron P., R. T. Murphy, and J. F. Horgan, to Micromatic Hone Corp. Bonded abrasive grade checking apparatus. 3,347,090, 10–17–67, Cl. 73—78.

Ellis, Nicholas D., to Anheuser-Busch, Inc. Carton. 3,348,758, 10–24–67, Cl. 229—44.

Ellis, Peter E., to National Biscuit Co. Process for manufacture of chocolate water-icings. 3,332,784, 7–25–67, Cl. 99—139.

Ellis, Rex M. Cleaning tool. 3,310,826, 3–28–67, Cl. 15—105.

Ellis, Richard H.: *See*—
Jenigen, Albert J. 3,315,357.

Ellis, Robert G., to Atlas Pacific Engineering Co. Cherry chunk clean-out device. 3,300,033, 1–24–67, Cl. 198—229.

Ellis, Robert L., to Ward Aero, Inc. Fluid displacement devices having radially arranged cylinders. 3,357,364, 12–12–67, Cl. 103—174.

Ellis, Robert S., to The Taylor-Winfield Corp. Apparatus for aligning strip in strip joining equipment. 3,355,079, 11–28–67, Cl. 228—47.

Ellis, Robert T.: *See*—
Juel, Leslie H., and Ellis. 3,338,993.

Ellis, Roger H., to Raychem Corp. Heat shrinkable solder sleeve. 3,305,625, 2–21–67, Cl. 174—84.

Ellis, Rollo G., to Elox Corp. of Michigan. Air bleed system for hydraulic piston. 3,316,817, 5–2–67, Cl. 92—79.

Ellis, Sidney G.: *See*—
Webb, James E. 3,340,599.

Ellis, Stafford M. Group thrust compensator. 3,306,048, 2–28–67, Cl. 60—243.

Ellis, Stafford M., to Elliott Bros. (London) Ltd. Stable platforms. 3,335,614, 8–15–67, Cl. 74—5.34.

Ellis, Stafford M., to Elliott Brothers (London) Ltd. Bearings. 3,358,513, 12–19–67, Cl. 74—5.

Ellis, Thomas E.: *See*—
Breit, Frank A., and Ellis. 3,297,827.

Ellis, Warren L., to American Can Co. Container sealing ring. 3,334,776, 8–8–67, Cl. 220—53.

Ellis, Warren L., and G. E. Ruck, to Brockway Glass Co., Inc. Automatic lehr unloader. 3,308,922, 3–14–67, Cl. 198—30.

Ellis, William C., W. C. Pfann, and R. S. Wagner, to Bell Telephone Laboratories, Inc. Vapor-liquid-solid crystal growth technique. 3,346,414, 10–10–67, Cl. 117—106.

Ellis, William V.: *See*—
Johnson, Ivan B. D., and Ellis. 3,323,534.

Ellison, Claude R. Engine block washing tank. 3,319,638, 5–16–67, Cl. 134—107.

Ellison, James R.: *See*—
Allmark, Reginald H., and Ellison. 3,353,105.

Ellison, John V., to United States of America, Navy. Multiple-frequency ranging system. 3,302,161, 1–31–67, Cl. 340—3.

Ellison, Lynn E.: *See*—
Berg, Robert H., Youngdahl, and Ellison. 3,344,786.

Ellison, Ronald, and J. Pritchard, to Ellison Tufting Machinery Ltd. Tufting machines. 3,334,601, 8–8–67, Cl. 112—79.

Ellison Tufting Machinery Ltd.: *See*—
Ellison, Ronald, and Pritchard. 3,334,601.

Ellison, William M., Jr., L. T. Fuller, and W. B. Poston, to Deering Milliken Research Corp. Strand twisting machine. 3,347,035, 10–17–67, Cl. 57—58.65.

Elliston, Thomas L., to Otis Engineering Corp. Mechanically set high temperature well packer. 3,330,357, 7–11–67, Cl. 166—134.

Elliston, Thomas L., and C. R. Young, to Otis Engineering Corp. Well packer and anchor therefor. 3,338,308, 8–29–67, Cl. 166—120.

Ellman, Julius: *See*—
Lerner, George, and Ellman. 3,297,325.
Lerner, George, and Ellman. 3,358,999.

Ellmann, Norbert W., to Abbott Laboratories. Blood collection and sampling apparatus having separable coupling means. 3,342,179, 9–19–67, Cl. 128—214.2.

Ellms, Robert W., to The Osborn Mfg. Co. Shockless jolt molding machine. 3,311,954, 4–4–67, Cl. 22—45.

Ellms, Robert W., to The Osborn Mfg. Co. Foundry sand forming machines. 3,328,852, 7–4–67, Cl. 164—201.

Ellrott, Albert C.: *See*—
Ellrott, Frederick, A. C., and C., and R. D. and D. H. Ashton, and Gomersall. 3,348,467.

Ellrott, Charles: *See*—
Ellrott, Frederick, A. C., and C., and R. D. and D. H. Ashton, and Gomersall. 3,348,467.

Ellrott, Frederick, A. C., and C., and R. D. and D. H. Ashton, and E. S. Gomersall. Stock feed pelleting machine. 3,348,-467, 10–24–67, Cl. 99—235.

Ells, Myron B., and F. W. Bollenbach, to Johnson & Johnson. Method of making flexible bag-like containers. 3,320,863, 5–23–67, Cl. 93—35.

Ells, Myron B., and F. W. Bollenbach, to Package Products Co., Inc. Package. 3,349,993, 10–31–67, Cl. 229—66.

Ells, Pritchard P., and W. J. Schroder, to Deering Milliken Research Corp. Latex coated fibrous material and method of making same. 3,330,689, 7–11–67, Cl. 117—76.

Ellsiepen, Ernst, and J. Wuhrer, to Dolomitwerke G.m.b.H. Manufacture of tar impregnated refractories. 3,330,676, 7–11–67, Cl. 106—58.

Ellsworth, Orval T., to The Regents of The University of California. Hypodermic syringe. 3,325,061, 6-13-67, Cl. 222—386.

Ellsworth, Robert C., to American Fastener Corp. Apparatus for forming the head on a flat head screw. 3,304,561, 2-21-67, Cl. 10—7.

Ellwood, Walter B., and J. M. Niedzwieckl, to Bell Telephone Laboratories, Inc. Manufacture of reed type devices. 3,310,863, 3-28-67, Cl. 29—155.5.

Ellzey, Samuel E., Jr.: *See*—
Mack, Charles H., and Ellzey. 3,300,530.
Mack, Charles H., and Ellzey. 3,350,163.

Ellzey, Samuel E., Jr., to United States of America, Agriculture. (Perfluorodioxocycloalkyl) phosphonium betaines. 3,359,321, 12-19-67, Cl. 260—590.

Ellzey, Samuel E., Jr., J. S. Wittman III, W. J. Connick, Jr., and W. A. Guice, to United States of America, Agriculture. Process for the preparation of primary 1,1-dihydropolyfluoroalkyl amines. 3,338,968, 8-29-67, Cl. 260—583.

Elman, Stanley H., F. E. Woodward, and F. F. Sullivan, to General Aniline & Film Corp. Process for aerated drilling. 3,297,098, 1-10-67, Cl. 175—69.

Elmat Corp.: *See*—
Lattke, Horst G. 3,336,727.
Lorenzini, Robert E. 3,337,303.
Lorenzini, Robert E. 3,337,304.

Elmendorf, Armin, to Elmendorf Research, Inc. Foldable structural shipping container. 3,302,848, 2-7-67, Cl. 229—23.

Elmendorf, Armin. Prefabricated panel with pliable film thereon. 3,332,193, 7-25-67, Cl. 52—545.

Elmendorf Research, Inc.: *See*—
Elmendorf, Armin. 3,302,848.

Elmer, Adam, to Hydraulik G.m.b.H. Hydraulic fluid accumulator having separating wall tensioner. 3,360,009, 12-26-67, Cl. 138—30.

Elmer, Augustus, Jr., and R. S. Edmunds, Jr., to International Foods, Inc. Method and apparatus for extruding candy bars. 3,307,503, 3-7-67, Cl. 107—69.

Elmer, Curtis, to Monsanto Co. Thermosettiable resin composition and fibrous substrate impregnated with same. 3,346,443, 10-10-67, Cl. 161—184.

Elmer, Curtis, and J. J. Mestdagh, to Monsanto Co. Self-extinguishing phenolic resin compositions and laminates prepared therefrom. 3,352,744, 11-14-67, Cl. 161—264.

Elmer, Jack T., and B. G. Altmann, to Kaiser Aluminum & Chemical Corp. Refractory products and method. 3,333,972, 8-1-67, Cl. 106—58.

Elmer, William B., to Sylvania Electric Products Inc. Portable photographic light. 3,331,960, 7-18-67, Cl. 240—103.

Elmer, William B., to Trans-Lux Corp. Optical system for tape projectors. 3,358,553, 12-19-67, Cl. 88—24.

Elmes, Robert T., and J. A. Chilman, to Dowty Rotol Ltd. Wind motors. 3,339,639, 9-5-67, Cl. 170—160.21.

Elmi, Enea. Biomedical apparatus for generating controllable magnetic fields. 3,337,776, 8-22-67, Cl. 317—123.

Elmo Co. Ltd.: *See*—
Kono, Seki. 3,351,413.
Sato, Toshiyuki, and Kono. 3,353,731.

Elmore, Austin E., to Ern-More Product Engineering Service. Dispensing bottle. 3,323,689, 6-6-67, Cl. 222—385.

Elmore, Duane R., to The Pneumatic Applications Co. Variable-rate-torque controller. 3,297,274, 1-10-67, Cl. 242—75.45.

Elmore, Ernest L.: *See*—
Mills, Edwin R., and Elmore. 3,356,825.

Elmquist, Lyle F., to General Mills, Inc. Aerosol hard surface cleaner. 3,354,088, 11-21-67, Cl. 252—90.

Elmwood Liquid Products, Inc.: *See*—
Morrison, Willard L. 3,302,423.
Morrison, Willard L. 3,302,815.

El-Naggar, Ahmed S. Method of treatment of sewage by bisoxidation and apparatus therefor. 3,335,081, 8-8-67, Cl. 210—15.

Elo, Anssi T. T. Device for bringing articles submergible in water, such as marking floats and the like, back to the water surface. 3,310,820, 3-28-67, Cl. 9—9.

Elofson, Harry. Composite structural pillar and rafter beams with nailing strips. 3,313,070, 4-11-67, Cl. 52—93.

Eloranta, Vaito K.: *See*—
Cooper, Dexter P., Jr., and Eloranta. 3,307,461.
Cotta, Ezio D., and Eloranta. 3,314,791.

Elovic, Ernest, and A. I. Dahl, to United States of America, Navy. Heater for the maintenance of stable two-phase flow in uninsulated, flexible-transfer-line cryogenic systems. 3,332,254, 7-25-67, Cl. 62—514.

Elox Corp.: *See*—
Ellis, Rollo G. 3,316,817.
Webb, Robert S. 3,328,635.
Webb, Robert S. 3,329,866.

Eloy, Fernand, and C. J. Mirocha, to Union Carbide Corp. 5-nitrofuryl-2-amidoximes. 3,347,874, 10-17-67, Cl. 260—347.7.

El Paso Natural Gas Products Co.: *See*—
Kidwell, Louis E., Jr. 3,299,154.
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El Paso Products Co.: *See*—
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Elpers, Jerome E., to American Machine & Foundry Co. Voltage sensitive control device. 3,335,325, 8-8-67, Cl. 317—31.

Elrich, David K.: *See*—
Cochran, Thomas J., Donato, Elrich, and Ficker. 3,308,977.

Elrod, Alvis O., Jr., and E. H. Heckman, to United States of America, Navy. Monitoring circuit for transmitter power amplifiers. 3,304,510, 2-14-67, Cl. 330—2.

Elrod, Charles W., to United States of America, Air Force. Cryogenic transfer method and apparatus. 3,316,931, 5-2-67, Cl. 137—339.

El-Roy, Menahem, to Israel Mining Industries-Institute of Research and Development. Directly contacting feed liquid with vaporized heat exchange liquid immiscible with feed. 3,337,421, 8-22-67, Cl. 203—11.

Els, Hans: *See*—
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Elsas, Norman E., to Nemo Industries, Inc. Feeding and cutting machine for sheet material. 3,318,179, 5-9-67, Cl. 83—201.

Elsasser, Heinrich, to Franz Morat, G.m.b.H. Photoelectric scanning arrangement including a rotating cylindrical lens. 3,317,735, 5-2-67, Cl. 250—219.

Elsbach, Gerald, to Ampex Corp. Pneumatic tape drive systems. 3,323,737, 6-6-67, Cl. 242—55.12.

Elsbett, Ludwig, to Maschinenfabrik Augsburg-Nurnberg AG. Internal combustion engine supercharging. 3,298,332, 1-17-67, Cl. 123—52.

Else, George W.: *See*—
Dean, Albert G., and Else. 3,343,830.

Elsenheimer, Charles W. Locking slider for slide fasteners. 3,355,778, 12-5-67, Cl. 24—205.14.

Elsenheimer, Charles W., and D. J. Broughton, to Prentice Corp. Key holder. 3,349,590, 10-31-67, Cl. 70—456.

Elser, William F., to Owens-Illinois Inc. Container and two-piece closure therefor. 3,307,728, 3-7-67, Cl. 215—97.

Elser, William F., to Owens-Illinois, Inc. Glass containers and closures for same. 3,332,565, 7-25-67, Cl. 215—39.

Elslager, Edward F., to Parke, Davis & Co. Proparaylamine as an anti-depressant. 3,297,527, 1-10-67, Cl. 167—65.

Elslager, Edward F., to Parke, Davis & Co. Antimony (III) derivatives of pararosaniline and the preparation thereof. 3,342,844, 9-19-67, Cl. 260—446.

Elslager, Edward F., and L. M. Werbel, to Parke, Davis & Co. Pyridylazo compounds. 3,314,933, 4-18-67, Cl. 260—156.

Elslager, Edward F., and D. F. Worth, to Parke, Davis & Co. Pyrimethamine salt with brominated naphthoic acids. 3,316,268, 4-25-67, Cl. 260—256.4.

Elslager, Edward F., and D. F. Worth, to Parke, Davis & Co. Bisanilide compounds and methods for their production. 3,325,222, 6-13-67, Cl. 260—397.6.

Elslager, Edward F., and D. F. Worth, to Parke, Davis & Co. Halogenated cresol compounds and methods for their reproduction. 3,325,521, 6-13-67, Cl. 260—397.6.

Elsner, Hans: *See*—
Gerlets, Heinz, Elsner, and Wesselhöft. 3,345,490.

Elsner, Hans, to Olympia Werke AG. Print member guide and return means for selective printing machines. 3,315,597, 4-25-67, Cl. 101—109.

Elsner, Horst: *See*—
Buning, Robert, Diessel, Elsner, and Konermann. 3,341,628.

Elsner, Horst, H. Moser, and H.-E. Konermann, to Dynamit-Nobel Aktiengesellschaft. Preparation of polyolefins for chlorination and chlorination of polyolefins. 3,341,508, 9-12-67, Cl. 260—92.8.

Elsner, Lothar. Compound construction elements and method of manufacture and assembly. 3,331,173, 7-18-67, Cl. 52—309.

Elsner, Uwe, to Hauni-Werke Korber & Co. K.G. Apparatus for cutting tobacco. 3,354,921, 11-28-67, Cl. 146—120.

Elsner, Virgil F.: *See*—
Gould, Jerome, and Elsner. 3,334,944.

Elson, Donald E., to The Black and Decker Mfg. Co. Retaining member. 3,298,409, 1-17-67, Cl. 143—159.

Elson, Donald E., and H. J. Foell, Jr., to The Black and Decker Mfg. Co. Bearing mount for armature shaft subassembly having a pinion cutter run-out. 3,303,366, 2-7-67, Cl. 310—83.

Elson, Jesse, to Delaware Valley College of Science and Agriculture. Method of acidulating phosphate rock and product thereof. 3,357,813, 12-12-67, Cl. 71—23.

Elste, Edwin S.: *See*—
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Weinschel, Bruno O., Bacher, and Elste. 3,340,495.

Elster & Co. Aktiengesellschaft: *See*—
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Elster, Ulrich, to Continental Gumoni-Werke Aktiengesellschaft. Toothed belt drive. 3,313,166, 4-11-67, Cl. 74—229.

Elston, Edward R.: *See*—
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Elston, Gilbert S.: *See*—
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Elstone, Douglas K.: *See*—
Hadenka, Leon, and Elstone. 3,338,405.

Elstrand, John G.: *See*—
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Elton Industries, Inc.: *See*—
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Nolte, Albert C., Jr. 3,355,153.

Elton, Robert G.: *See*—
Bresson, Richard J., and Elton. 3,319,554.

Eltonhead, Robert W., to Crompton & Knowles Corp. Monoazo dyes. 3,311,606, 3-28-67, Cl. 260—204.

Eltra Corp.: *See*—
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Brown, Robert N. 3,354,779.
Brumback, Willson P., Jr. 3,327,087.
DeYoung, Roger E. 3,331,403.
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Nelson, Jord O. 3,335,610.
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Eltro Gesellschaft fur Strahlungstechnik m.b.H.: *See*—
Pfab, Diethard G., and Schwab. 3,354,457.
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El-Tronics, Inc.: *See*—
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Elver, Lowell E., to The Parker Pen Co. Apparatus for producing containers. 3,347,733, 10-17-67, Cl. 156—515.

Elward, Nye K. Orbiting top mechanism. 3,335,519, 8-15-67, Cl. 46—65.

Elwell, Charles A., to The Toy Development Center, Inc. Heartbeat simulating mechanism for dolls. 3,298,132, 1-17-67, Cl. 46—192.

Elwell, Charles A., to The Toy Development Center, Inc. Sound device for roller skates. 3,302,954, 2-7-67, Cl. 280—11.19.

Elwell, Charles A., and R. B. Klamer, to The Toy Development Center, Inc. Visual-auditory means for microscopes. 3,352,026, 11-14-67, Cl. 35—8.

Elwell, Herbert L.: *See*—
Clarke, Eugene S., Elwell, Hatch, and Lotarski. 3,339,510.

Elwell, Maurice W., to Iden Mfg. Co., Inc. Washing machine service unit. 3,321,071, 5-23-67, Cl. 206—46.

Elwell, Richard C., to General Electric Co. Gas lubricated bearings. 3,298,751, 1-17-67, Cl. 308—9.

Elwood, Albert A., and H. A. Cook, said Elwood assor. to Airpax Electronics, Inc. Fluid direction synchro. 3,304,777, 2-21-67, Cl. 73—188.

Elwood, Albert A., and R. I. Carlson. Magnetic mounting for piezo-electric crystals. 3,327,142, 6-20-67, Cl. 310—9.1.

Elwood, Albert A., and R. I. Carlson. Crystal temperature and pressure transducer. 3,355,949, 12-5-67, Cl. 73—345.

Ely, James K., P. D. Whyzmusis, and W. M. Gresens, to Interchemical Corp. Block tester. 3,323,359, 6-6-67, Cl. 73—150.

Ely, John O.: *See*—
Broding, Robert A., Summers, and Ely. Re. 26,297.

Ely, La Verne B.: *See*—
Broding, Robert A., Summers, and Ely. Re. 26,297.

Ely, Lewis C., to Dayco Corp. Blade assembly for a mowing machine. 3,302,377, 2-7-67, Cl. 56—295.

Ely, Lewis C., to Dayco Corp. Yieldable mower blade. 3,340,682, 9-12-67, Cl. 56—295.

Ely, William T., to Parke, Davis & Co. Amino derivatives of 2-stilbazole. 3,306,896, 2-28-67, Cl. 260—240.

Elyard, Charles A., and T. J. Potter, to United Kingdom Atomic Energy Authority. Sintered uranium dioxide-iridium composition and method of preparation. 3,342,744, 9-19-67, Cl. 252—301.1.

Elyard, Charles A., and T. J. Potter, to United Kingdom Atomic Energy Authority. Sintered uranium dioxide containing yttrium oxide. 3,344,081, 9-26-67, Cl. 252—301.1.

Elzer, Richard: *See*—
Geisel, Herbert, Muller, Seul, Lenze, and Elzer. 3,313,907.

Embassy Industries, Inc.: *See*—
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Richter, Walter. 3,358,492.

Ember, Benjamin S.: *See*—
Horn, John M., and Ember. 3,305,121.

Emblem, Harold G., N. A. Hurt, and S. A. Trow, to Philadelphia Quartz Co. Hardening of epoxy resin by means of condensation products of aminoalkoxysilanes and monooxirane compounds. 3,299,166, 1-17-67, Cl. 260—824.

Emblem, Harold G., and S. A. Trow, to Philadelphia Quartz Co. Production of refractory objects. 3,314,806, 4-18-67, Cl. 106—38.2.

Emblem, Harold G., and N. A. Hurt, to Philadelphia Quartz Co. Organic titanate materials. 3,326,950 6-20-67 Cl. 260—429.5.

Emblem, Harold G., and C. E. Oxley, to Philadelphia Quartz Co. Refractory binder comprising organic silicates. 3,329,520, 7-4-67, Cl. 106—287.

Embree, Harold K., to Ovalstrapping Ltd. Automatic strapping machine. Re. 26,307, 11-21-67, Cl. 100—4.

Embury Coil Line Ltd.: *See*—
Embury, Lloyd E. 3,334,833.

Embury, Lloyd E., to Embury Coil Line Ltd. Coil storage and handling device. 3,334,833, 8-8-67, Cl. 242—64.

Emco Wheaton, Inc.: *See*—
Rosell, Lester P. 3,330,313.

Emde, Gunter, to Bolkow Gesellschaft mit beschränkter Haftung. Card selecting apparatus. 3,342,185, 9-19-67, Cl. 129—16.1.

Emde, Günter, to Bolkow Gesellschaft mit beschrankter Haftung. Apparatus for the visible and audible presentation of information in a desired sequence. 3,353,280, 11-21-67, Cl. 35—9.

Emdeko Distributing, Inc.: *See*—
Storm, Frederick K., Jr., and Smiley. 3,348,254.

Emeis, Reimer, to Siemens-Schuckertwerke Aktiengesellschaft. Connecting device for consolidating the housing of a semiconductor device. 3,310,716, 3-21-67, Cl. 317—234.

Emeis, Reimer, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for crucible-free zone melting. 3,342,970, 9-19-67, Cl. 219—10.43.

Emeis, Reimer, and A. Hoffmann, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor P-N junction devices and method for their manufacture. 3,298,878, 1-17-67, Cl. 148—177.

Emele, Otto, to Seitz-Werke G.m.b.H. Arrangement for automatically displacing plates and frames, especially in filter presses. 3,356,217, 12-5-67, Cl. 210—143.

Emerson, Alfred A. Measuring instrument. 3,344,531, 10-3-67, Cl. 33—58.

Emerson, David C.: *See*—
Middleton, John E., and Emerson. 3,322,637.

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Brundage, Robert W. 3,342,085.
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Engelke, John L., P. C. Johnson, and B. A. Stein, to Arthur D. Little, Inc. Method and apparatus for forming wire from molten material. 3,347,959, 10–17–67, Cl. 264—37.

Engelking, James E., to Sperry Rand Corp. Electrical circuit board fabrication. 3,325,881, 6–20–67, Cl. 29—155.5.

Engelman, Joseph H., and W. A. Witsell, to Burroughs Corp. Method for fabricating an electrical memory module. 3,347,703, 10–17–67, Cl. 117—212.

Engelmann, Alfred, Zahlerfabrik: *See*—
Stautmeister, Erich. 3,311,299.

Engels, Eugene L. Method and apparatus for positioning and orientating articles. 3,341,030, 9–12–67, Cl. 214—1.

Engels, Kaspar, and H. Durr, to Draiswerke G.m.b.H. Stirring mill. 3,311,310, 3–28–67, Cl. 241—153.

Engels, Walter: *See*—
Jones, Coy V., Sr., and Engels. 3,357,167.

Engelskirchen, Konrad, and J. Galinke, to Henkel & Cie, G.m.b.H. Hydroxyalkyl ethers of galactomannans and process for their preparation. 3,326,890, 6–20–67, Cl. 260—209.

Engelskirchen, Konrad, and J. Galinke, to Henkel & Cie, G.m.b.H. Process for the purification of water-soluble hydroxyethyl cellulose. 3,347,847, 10–17–67, Cl. 260—232.

Engelskirchen, Konrad, and J. Galinke, to Henkel & Cie G.m.b.H. Process for the purification of hydroxyalkyl ethers of galactomannans. 3,350,386, 10–31–67, Cl. 260—209.

Engelsmann, Dieter: *See*—
Schroder, Rolf, and Engelsmann. 3,334,562.
Winkler, Alfred M., Engelsmann, and Hackenberg. 3,301,584.
Winkler, Alfred, Engelsmann, Landbrecht, and Bammesberger. 3,354,803.
Winkler, Alfred, Engelsmann, Landbrecht, and Ronner. 3,348,461.
Winkler, Alfred, Engelsmann, and Zobel. 3,311,037.

Engelsmann, Dieter, and A. Brath, to Agfa Aktiengesellschaft. Devices for making exposures with artificial light. 3,296,947, 1–10–67, Cl. 95—1.

Engelson, Morris: *See*—
Frisch, Arnold, Weiss, and Engelson. 3,325,754.

Enger, Lars S., to Aktiebolaget Electrolux. Absorption refrigeration. 3,338,066, 8–29–67, Cl. 62—141.

Engert, Fred O.: *See*—
Duenke, Clarence G., and Engert. 3,321,735.

Engert, Karl-Hans G., to Consolidated Electrodynamics Corp. Apparatus for measuring and testing electrical properties of nonconductive materials. 3,300,716, 1–24–67, Cl. 324—61.

Engesser, Heinz, and E. Brand, to Deere & Co. Power loader. 3,335,882, 8–15–67, Cl. 214—131.

Engh, Howard A. Vertical paint roller tray. 3,351,970, 11–14–67, Cl. 15—257.06.

Engh, Robert O., and R. G. Johnson, to Honeywell Inc. Radiation detector characterized by its minimum spurious count rate. 3,344,302, 9–26–67, Cl. 313—100.

Engholdt, Richard K., to Erie Mfg. Co. Flushing control for waste disposal systems. 3,300,148, 1–24–67, Cl. 241—33.

Engi, Walter, to A. Ditting. Slicing machine having knife sharpening means. 3,298,413, 1–17–67, Cl. 146—102.

Engibous, James C.: *See*—
Huffman, Clarence W., Engibous, and Skaptason. 3,303,090.

Engineer, Homi B. Scraping device. 3,328,878, 7–4–67, Cl. 30—172.

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Engineered Plastics, Inc.: *See*—
Poteat, George A. 3,356,309.
Poteat, George A., Jr. 3,347,489.

Engineering Associates, Inc.: *See*—
Clark, Robert C. 3,310,157.

Engineering & Development Co. of California: *See*—
Goble, Ralph W. 3,302,301.

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Lerner, Henry C., and Long. 3,337,897.

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England, Alfred C.: *See*—
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England, David C., to E. I. du Pont de Nemours and Co. Lactones of 5-hydroxy-3-keto-6,6-bis(perfluoroalkyl)-4-hexenoix acids and preparation thereof. 3,336,339, 8–15–67, Cl. 260—343.5.

England, James R.: *See*—
Pasinski, Ralph R. 3,296,607.

Englander Co., Inc., The: *See*—
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Fasanella, George S. 3,350,725.

Englander, Robert A., to Dacam Corp. Tray packing means. 3,332,200, 7–25–67, Cl. 53—55.

Englander, Robert A., and C. B. Messer III, to Simplimatic Engineering Co. Rail mounting means. 3,325,131, 6–13–67, Cl. 248—251.

Englar, Kenneth G.: *See*—
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Engle, Charles E.: *See*—
Walker, Norman C., and Engle. 3,346,817.

Engle, Charles J., to Phillips Petroleum Co. Oil recovery by waterflooding. 3,354,952, 11–28–67, Cl. 166—7.

Engle, Jack F., to Borg-Warner Corp. Differential mechanism. 3,327,559, 6–27–67, Cl. 74—711.

Engle, Jack F., to Borg-Warner Corp. Differential mechanism. 3,327,563, 6–27–67, Cl. 74—711.

Engle, Robert C., to Micromatic Hone Corp. Electronic gage. 3,320,672, 5–23–67, Cl. 33—172.

Engle, Thomas H. Card retarder. 3,339,682, 9–5–67, Cl. 188—180.

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Engleman, Joseph H. Multiple compartment scow. 3,307,513, 3–7–67, Cl. 114—74.

Engleman, Ross B.: *See*—
Wendt, John S., Jr., and Engleman. 3,332,770.

Engler, Ernest F. Light blocking tool for photographic printing. 3,309,973, 3–21–67, Cl. 95—1.

Engler Instrument Co.: *See*—
Bordwick, Roy G. 3,357,240.

Engler, John F. Resilient support for a rotary mower housing. 3,334,476, 8–8–67, Cl. 56—322.

Engler, Otto, to Vereinigte Kesselwerke AG. Tube support for steam boilers having an upright wall formed by helically arranged tubes. 3,295,504, 1–3–67, Cl. 122—510.

Engler, Peter E., and J. A. Hammer, to Cornell Aeronautical Laboratory, Inc. Waveguide apparatus for coupling out and isolating modes above the fundamental. 3,351,874, 11–7–67, Cl. 333—10.

Engler, Werner. Fountain pen. 3,297,002, 1–10–67, Cl. 120—42.04.

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Englesson, Per T. Tablet container having tablet release means. 3,319,827, 5–16–67, Cl. 221—299.

Englesson, Per T., to Berthen A.G. Dispenser for liquids and creams. 3,338,475, 8–29–67, Cl. 222—107.

Englesson, Sixten, ½ to Flygts Pumpar, AB. Centrifugal pumps with slip-coupling (clutch). 3,306,219, 2–28–67, Cl. 103—87.

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English, Cecil. Saw sharpening machine. 3,304,810, 2–21–67, Cl. 76—40.

English, Charles L. Sealing means. 3,304,872, 2–21–67, Cl. 103—46.

English, Charles L., deceased, by M. K. English, executor. Constant volume flow control valve. 3,336,941, 8–22–67, Cl. 137—501.

English, Charles L., deceased (by M. K. English, executor). Flow indicator. 3,357,244, 12–12–67, Cl. 73—208.

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English, Edgar, Jr. Protective packing apparatus, and fastener means, for easily damaged objects. 3,311,231, 3–28–67, Cl. 206—65.

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Baxter, Harry. 3,324,007.
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Burnett, Thomas B. 3,308,310.
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Christopher, Peter J. 3,358,748.
Condon, Parrick F., and Gray. 3,316,516.
Daltry, John H. 3,305,006.
Daltry, John H. 3,346,041.
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Dayson, Ronald C. 3,355,729.
Fradley, Gordon A., and Whitehouse. 3,297,839.
Francis, Alan E. 3,355,190.
Hoel, Hans. 3,325,685.
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McMillan, Peter W., and Hodgson. 3,328,145.
McMillan, Peter W., and Lawton. 3,352,698.
McMillan, Peter W., and Partridge. 3,352,656.
Moreton, Peter L. 3,309,582.
Moreton, Peter L. 3,321,670.
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Paddison, Eric. 3,296,495.
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Robinson, Alfred A. 3,328,682.
Wale, George D., Antippa, and Wilkins. 3,341,793.
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Yarrow, Christopher J. 3,302,093.

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Honeyball, Walter J. 3,343,106.
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English, Jackson P., to American Cyanamid Co. Process for upgrading thiophosphates. 3,309,432, 3–14–67, Cl. 260—989.

English, Jackson P., F. L. Bach, Jr., and S. Gordon, to American Cyanamid Co. Aminoethoxyphenyl amine, ether, and sulfide derivatives of pyrimidine. 3,321,478, 5–23–67, Cl. 260—256.4.

English, Jackson P., F. L. Bach, Jr., and S. Gordon, to American Cyanamid Co. Aminoalkoxy-diphenyl amines, ethers and thioethers. 3,330,831, 7–11–67, Cl. 260—268.

English, Jackson P., F. L. Bach, Jr., and S. Gordon, to American Cyanamid Co. N-pyridyl-4-aminoalkoxy anilines. 3,330,832, 7–11–67, Cl. 260—268.

English, James H.: *See*—
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English, John B., to Reynolds Metals Co. Bright finished aluminum alloy system. Re. 26,216, 5–30–67, Cl. 148—31.5.

English, Marcia K.: *See*—
English, Charles L. 3,336,941.
English, Charles L. 3,357,244.

English Numbering Machines Ltd.: *See*—
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English Rose Ltd.: *See*—
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English, Victor W.: *See*—
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English, William K.: *See*—
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Bennion, David R., English, and Nitzan. 3,322,965.
Crane, Hewitt D., English, and Baer. 3,312,831.

English, William K., to AMP Inc. Dial sequence detector. 3,327,290, 6–20–67, Cl. 340—167.

English, William W. Kite construction. 3,350,014, 10–31–67, Cl. 244—153.

Englund, Gosta R., and M. E. Mattsson, to Svenska Dataregister AB. Recording assembly for accounting machine. 3,296,961, 1–10–67, Cl. 101—93.

Englund, Gosta R., and M. E. Mattsson, to Svenska Dataregister A.B. Keyboard assembly for accounting machine. 3,321,135, 5–23–67, Cl. 235—145.

Englund, Gosta R., and M. E. Mattsson, to Svenska Dataregister AB. Accounting machine including improved differential assemblies and controls therefor. 3,326,461, 6–20–67, Cl. 235—11.

Englund, Gosta R., and M. E. Mattsson, to Svenska Dataregister A.B. Accounting machine including improved start test assembly. 3,331,555, 7–18–67, Cl. 235—62.

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Vecchiarelli, Francis, Englund, and Buck. 3,336,705.
Vecchiarelli, Francis, Vasas, and Englund. 3,336,714.

Englund, Sture E. A., S. I. Axelsson, and T. V. Andersson, to Saab Atkiebolag. Punched card process control apparatus. 3,335,297, 8–8–67, Cl. 307—112.

Engman Mfg. Co.: *See*—
Engman, Milton C., and Van Zee. 3,340,581.

Engman, Milton C., and A. Van Zee, to Engman Mfg. Co. Clamp. 3,340,581, 9–12–67, Cl. 24—276.

Engstrom, Carl-Gunnar D. Valve device in gas systems. 3,349,790, 10–31–67, Cl. 137—247.17.

Engstrom, Oscar L. Replaceable valve seat for flush valves. 3,347,519, 10–17–67, Cl. 251—365.

Engstrom, William A., to Continental Motors Corp. Engine starting system. 3,338,227, 8–29–67, Cl. 123—120.

Engstrom, William A., and M. S. Wojewodzki. Flag pole painter. 3,344,773, 10–3–67, Cl. 118—307.

Engvall, Per H., to De Laval Turbine Inc. Turbine. 3,334,863, 8–8–67, Cl. 253—39.

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Enhorning, John J., to Standard Car Truck Co. Railroad car trucks with spring biased side bearings. 3,329,099, 7–4–67, Cl. 105—199.

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Enk, Adolph J., to Keith Clark Inc. Calendar support. 3,340,636, 9–12–67, Cl. 40—121.

Enk, Eduard, and H. Spes, to Wacker-Chemie G.m.b.H. Process for the hydrolysis of alkanol derivatives. 3,317,593, 5–2–67, Cl. 260—540.

Enk, Eduard, and H. Reinecke, to Wacker-Chemie G.m.b.H. Vinyl polymer mixture adapted for the preparation of dispersions composed of polyvinylchloride and plasticizers. 3,318,825, 5–9–67, Cl. 260—8.

Enk, George W. Electrical timing apparatus. 3,346,779, 10–10–67, Cl. 317—141.

Enka Corp.: *See*—
Middelburg, Pieter H., Nieuwenhuysen, and le Cosquino de Bussy. 3,305,532.

Enke, Kurt: *See*—
Altmann, Werner E., Enke, and Rothweiler. 3,298,200.
Kraus, Ludwig, and Enke. 3,360,066.

Enkelmann, Walter, to Henschel-Werke A.G. Machine for grinding crankshafts. 3,352,065, 11–14–67, Cl. 51—105.

Enkvist, Sven H. G., to Sandvikens Jernverks Aktiebolag. Tube welding apparatus. 3,360,177, 12–26–67, Cl. 228—9.

Ennis, Brian C., to Monsanto Chemicals (Australia) Ltd. Tetrahydro-1,10-phenanthrolines. 3,322,773, 5–30–67, Cl. 260—288.

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Bell, William A., Jr., and Ennis. 3,313,935.

Ennis, Royce E.: *See*—
Dixon, Stanley, Ennis, Kalil, and Knabeschuh. 3,296,222.

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Enos, William W. Pipe cutting machine. 3,309,002, 3–14–67, Cl. 225—2.

En-Power Co., Inc.: *See*—
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Enresco, Inc.: *See*—
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Enrico, Stephanie F. Three-in-one maternity garment. 3,357,435, 12–12–67, Cl. 128—431.

Enrietto, Joseph F., to Jones & Laughlin Steel Corp. Process for producing non-aging steels. 3,348,980, 10–24–67, Cl. 148—16.

Enright, Clarence R.: *See*—
Johnson, Russell W. 3,359,354.

Enright, John A., to General Electric Co. Meter relay using photoelectric relay elements controlled by an annular shutter mounted on the water movement assembly. 3,329,825, 7–4–67, Cl. 250—231.

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Ensign, John D., and H. Hashimoto, to Measurement Science Corp. Disposable sheath and sheath retainer for temperature sensing probes. 3,349,896, 10–31–67, Cl. 206—16.5.

Ensign, Robert H., to Hough Mfg. Corp. Folding partition. 3,331,426, 7–18–67, Cl. 160—199.

Ensing, Robert H., and G. H. Woods, to American Dispenser Co., Inc. Liquid soap dispensers. 3,319,835, 5–16–67, Cl. 222—180.

Ensinger, Earl H. Barrel dumper. 3,347,399, 10–17–67, Cl. 214—314.

Enskat, Albert G., to Uarco Inc. Stationary forms folding attachment for use with an associated business machine. 3,356,557, 12–5–67, Cl. 156—461.

Ensley, Donald L., to Harvest Queen Mill & Elevator Co. Two-crystal interferometer. 3,316,755, 5–2–67, Cl. 73—67.5.

Ensmann, Burt W.: *See*—
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Ensminger, Stanley W., to Chas Pfizer & Co., Inc. Antibiotics recovery process employing resins and horizontal flow. 3,313,693, 4–11–67, Cl. 167—65.

Ensor, Arthur J. Panel joint with hook-shaped bolt connecting device. 3,353,317, 11–21–67, Cl. 52—309.

Ent, Girard W., W. S. Davenport, and J. McDonald, to Westinghouse Electric Corp. High pressure and high temperature vessels. 3,327,884, 6–27–67, Cl. 220—9.

Entemann, Charles E.: *See*—
Hedge, Thomas E., Cooley, Entemann, Steinkoenig, and Urbanowski. 3,317,619.

Enterprise Machine & Development Corp.: *See*—
Wiggins, Kennard R. 3,352,511.

Enters, Edward W., to Gilson Bros. Co. Adjustable wheel mount. 3,334,911, 8–8–67, Cl. 280—43.

Enthone, Inc.: *See*—
Saubestre, Edward B., and Durney. 3,329,522.

Enthoven, Paul H., T. J. Dijkstra, and H. P. Schenkels, to Shell Oil Co. Curable composition containing an epoxy resin, polymeric aqelaic acid anhydride, and a monomeric anhydride of a polycarboxylic acid. 3,328,483, 6–27–67, Cl. 260—837.

Entley, William J., and H. A. Stanbury, Jr., to Union Carbide Corp. Fungicidal liquid concentrate with propylene glycol. 3,312,589, 4–4–67, Cl. 167—42.

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Entringer, James S., L. P. Marks, and H. D. Ritchie, to Culligan, Inc. Dual cam shaft control valve for automatic water softener. 3,352,419, 11–14–67, Cl. 210—140.

Entschel, Roland, C. Mueller, and W. Wehrli, to Sandoz Ltd. (a/k/a Sandoz A.G.). Basic monoazo and disazo dyestuffs containing a hydrazinium group. 3,337,523, 8–22–67, Cl. 260—165.

Entschel, Roland, C. Mueller, and W. Wehrli, to Sandoz Ltd., (a/k/a) Sandoz a.g. Basic monoazo and disazo dyestuffs containing a hydrazinium group. 3,341,514, 9–12–67, Cl. 260—165.

Entwicklungsanstalt fur Industrie-Elektronik: *See*—
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Klix, Uwe. 3,355,633.

Entwistle Mfg. Corp.: *See*—
Van Zelm, William D., and Jackson. 3,307,832.

Environmental Research Foundation: *See*—
Bechtel, Robert B. 3,346,866.

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Enz, Robert W 3,325,217.

Enz, Robert W., to Karl A. Enz. Tunneling and excaration through rock by core forming and removal. 3,325,217, 6–13–67, Cl. 299—31.

Enzian, Richard B., to United States of America, Air Force. Explosive hole cutters. 3,335,664, 8–15–67, Cl. 102—24.

Enzie, William H.: *See*—
Rollins, Murray L., Ott, and Enzie. 3,302,817.

Enzomedic Laboratories, Inc.: *See*—
O'Hollaren, Paul F. 3,326,756.
O'Hollaren, Paul F., and Lemere. 3,341,412.

Eolkin, Dave, to Norda Essential Oil and Chemical Co. Sterilization apparatus and method. 3,341,280, 9–12–67, Cl. 21—58.

Eolkin, Dave, and R. J. Bouthilet, ½ to Norda Essential Oil and Chemical Co. Method of sterilizing dry particulate material. 3,341,335, 9–12–67, Cl. 99—150.

Eon Corp.: *See*—
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Anton, Nicholas. 3,338,653.
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Eos, Eric A. Collapsible chairs. 3,301,596, 1–31–67, Cl. 297—443.

Epiatron, Inc.: *See*—
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Epler, Hans G.: *See*—
Schmidt, Wilhelm F., Hass, and Epler. 3,318,665.

Epoxylite Corp., The: *See*—
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Epp, David A., to Henderson Mfg. Co., Inc. Irrigation pipe gate. 3,321,175, 5–23–67, Cl. 251—145.

Eppenberger, Paul, to Gebruder Buhler, Oscillating screen with hanger supports. 3,351,201, 11–7–67, Cl. 209—329.

Eppenberger, Paul, to Gebruder Buhler. Metering and control devices for feeder appliances. 3,321,144, 5–23–67, Cl. 241—34.

Eppendahl, Pierre C., ½ to Thermiguides S.A. Fluid control valves. 3,334,655, 8–8–67, Cl. 137—596.2.

Eppendahl, Pierre C., ½ to Thermiguides S.A. Bobbin supporting apparatus. 3,338,528, 8–29–67, Cl. 242—18.

Eppensteiner, Frederick W., to Hanson-Van Winkle-Munning Co. Electrodeposition of zinc from pyrophosphate solutions. 3,296,104, 1–3–67, Cl. 204—55.

Epperly, William R., and W. J. Asher, to Esso Research and Engineering Co. Molecular sieve separation process. 3,309,-311, 3–14–67, Cl. 208—310.

Eppert, Franklin P., to General Electric Co. Multi-level ballast circuit including an isolation transformer for series circuit connection with a fluorescent lamp. 3,333,150, 7–25–67, Cl. 315—97.

Eppert, Franklin P., to General Electric Co. Lamp energizing system. 3,351,809, 11–7–67, Cl. 315—185.

Eppes, William R.: *See*—
West, John A., and Eppes. 3,301,733.

Epple, A. S., Inc.: *See*—
Epple, Robert E. 3,335,991.

Epple, Robert E., to A. S. Epple Inc. Combination support and lid lifter device. 3,335,991, 8–15–67, Cl. 248—211.

Eppler, Arthur H.: *See*—
Arnold, Gerald D., and Eppler. 3,299,526.

Eppler, Arthur H. Apparatus for wet abrasive blasting. 3,343,304, 9–26–67, Cl. 51—8.

Eppler, Arthur H. Polishing apparatus. 3,352,063, 11–14–67, Cl. 51—8.

Eppler, Daniel: *See*—
Lawson, Gustaf R., Eppler, and Bush. 3,332,454.

Eppler, Daniel, to The Thomas & Betts Co. Electrical connector. 3,325,776, 6–13–67, Cl. 229—272.

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Araujo, Roger J., Eppler, and Krause. 3,328,182.

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Gasche, Fred, and Epprecht. 3,301,579.

Epps, John S.: *See*—
Hawkins, Oscar M., Heaton, and Epps. 3,347,712.

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Litmanowitsch, Menasche, and Suter. 3,350,399.
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Suter, Hans, and Zutter. 3,350,400.

Epstein, David and S., to Vadys Associates, Ltd. Bathymetry. 3,307,144, 2–28–67, Cl. 340—5.

Epstein, David and S., to Vadys Associates, Ltd. Underwater signalling systems. 3,309,651, 3–14–67, Cl. 340—4.

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Cunningham, Patrick J., Platus, Marovich, and Epstein. 3,321,112.

Epstein, Herman: *See*—
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Epstein, Herman, to Borg-Warner Corp. Electrostatic printing system having means to make plural copies. 3,316,836, Cl. 101—114.

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Epstein, Herman, W. P. Foster, and T. L. Thourson, to Borg-Warner Corp. Charge head array for electrostatic printing system. 3,335,322, 8–8–67, Cl. 317—3.

Epstein, Herman, and S. Cogan, to Borg-Warner Corp. Tape transport method. 3,347,481, 10–17–67, Cl. 242—55.12.

Epstein, Joshua, to Acme Process Equipment Co. Flushing means for a grain discharge valve. 3,307,573, 3–7–67, Cl. 137—240.

Epstein, Martin, S. A. Buckler, A. E. Sherr, and H. C. Gillham, to American Cyanamid Co. Resinous polymeric reaction products of phosphorus and a polyamine. 3,332,889, 7–25–67, Cl. 260—2.

Epstein, Michael M., and J. E. Rhoads, to J. E. Rhoads & Sons, Inc. Polyurethane-polyamide article and method of preparation. 3,300,370, 1–24–67, Cl. 161—190.

Epstein, Morton B., and J. F. Gerecht, to Colgate-Palmolive Co. Resolution of terpene alcohols by elution chromatography using optically active polymer. 3,305,591, 2–21–67, Cl. 260—631.

Epstein, Peter F., to Stauffer Chemical Co. S-(2,5-dichloro-3-thienyl-thiomethyl)-O,O-diethyl-phosphorodithioate. 3,341,-553, 9–12–67, Cl. 260—332.5.

Epstein, Peter F., and M. E. Brokke, to Stauffer Chemical Co. Pyridyl-phosphorodithioic acid esters and methods of killing pests. 3,304,226, 2–14–67, Cl. 167—33.

Epstein, Philip L., to Quindar Electronics, Inc. Telemetering apparatus. 3,339,193, 8–29–67, Cl. 340—207.

Epstein, Philip L., and K.-S. Wang, to Quindar Electronics, Inc. Simplified compressor amplifier circuit utilizing a field effect transistor feedback loop and auxiliary solid state components. 3,334,308, 8–1–67, Cl. 330—24.

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Epsztein, Bernard, to CSF-Compagnie Generale de Telegraphie Sans Fil. High power electron tube with multiple locked-in magnetron oscillators. 3,324,341, 6–6–67, Cl. 315—3.6.

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Ganzinotti, Jean V. 3,341,974.

Equipment Research Corp.: *See*—
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Equipto Electronics Corp.: *See*—
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Equitable Paper Bag Co., Inc.: *See*—
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Erath, Edward H., to Douglas Aircraft Co., Inc. Cooling system for passenger compartments of vehicles. 3,304,739, 2–21–67, Cl. 62—244.

Erath, Louis W., to Test Equipment Corp. Apparatus for testing and measuring A.C. parameters of active elements connected in circuit. 3,348,145, 10–17–67, Cl. 324—158.

Erath, Louis W., to Test Equipment Corp. High frequency semi-conductor device test fixture having inductive loop signal injection means. 3,348,147, 10–17–67, Cl. 324—158.

Eratico, Rose R. Writing implement mechanism. 3,315,643, 4–25–67, Cl. 120—42.03.

Erb, Dale M., and H. B. Kast, to General Electric Co. Pressurizing and drain valve. 3,339,574, 9–5–67, Cl. 137—102.

Erb, Edward R., and R. L. Maass, to The Duberoid Co. Floor covering method. 3,350,483, 10–31–67, Cl. 264—74.

Erb, Ernst, to Erba Maschinenbau A.G. Yarn conditioning arrangement. 3,318,013, 5–9–67, Cl. 34—12.

Erb, Robert A., to United States of America, Interior. Method and apparatus for dropwise condensation. 3,298,427, 1–17–67, Cl. 165—1.

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Erbguth, Paul F. K. Flower holder. 3,303,611, 2–14–67, Cl. 47—41.11.

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Erceg, Jack P., and F. H. Collins, to W. R. Grace & Co. Method of thermoforming foamed sheets. 3,334,169, 8–1–67, Cl. 264—321.

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Erchak, Michael, Jr., and J. M. Kelley, to Rexall Drug and Chemical Co. Alpha-olefin polymerization process. 3,358,-055, 12–12–67, Cl. 260—878.

Ercoli, Alberto, to Francesco Vesmara S.p.A. Oral compositions containing 3-enol ethers of progesterone or 6-methyl derivatives thereof and method of using the same. 3,342,-682, 9–19–67, Cl. 167—74.

Erdelitsch, Herbert, and E. Jandl, to SWF-Spezialfabrik fur Autozubehor Gustav Rau G.m.b.H. Combined flare and turn signal arrangement for automotive vehicles. 3,325,784, 6–13–67, Cl. 340—74.

Erdelyi, Ferenc. Process and machine to roll tap drills. 3,347,-077, 10–17–67, Cl. 72—202.

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Erdle, Louis V., to Hughes Aircraft Co. Tracking system for communication satellites. 3,309,699, 3–14–67, Cl. 343—6.5.

Erdley, Harold F., J. S. Lipman, and S. Shapiro, to Litton Systems, Inc. Vibra-rotor gyroscope. 3,318,160, 5–9–67, Cl. 74—5.4.

Erdman, William C., and B. S. Zeller, to Clark Equipment Co. Hydraulic retarder and control valve. 3,297,114, 1–10–67, Cl. 188—90.

Erdmann, Hans, and L. F. Schmid, to Alfred Teves Maschinen- und Armaturenfabrik. Shock absorber for vehicular suspension systems. 3,353,813, 11–21–67, Cl. 267—8.

Erdmann, Kurt: *See*—
Friedenreich, Heinrich, and Erdmann. 3,350,119.

Erdmann, Robert C.: *See*—
Bagby, John P., and Erdmann. 3,337,660.

Erdmann, Robert L.: *See*—
Clauer, Calvin K., and Erdmann. 3,347,131.

Erdmann, Fritz, to Azoplate Corp. Light sensitive epoxy material for the photomechanical production of printing plates. 3,295,974, 1–3–67, Cl. 96—35.

Erdmann, Otto, and A. Schmid, to Hauni-Werke Koerber & Co. K.G. Machine for making and handling cigarettes and similar articles. 3,308,600, 3–14–67, Cl. 53—236.

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Ergenc, Sahabettin, to Sulzer Bros. Ltd. Gas cooling system. 3,327,495, 6–27–67, Cl. 62—401.

Erhardt, Fred L. Retractable fishing gaff. 3,311,398, 3–28–67, Cl. 294—19.

Erhardt, Max, J. Behringer, and W. Fuchs, to R. Zimmermann, oHG. Releasable retaining means for the bowls of electric all-glass-lamps. 3,312,817, 4–4–67, Cl. 240—128.

Ernhardt, William A., Jr.: *See*—
Bachman, Walter S., Jr., Erhardt, and Surprenant. 3,331,-544.

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Erickson, C. E. Co., Inc.: *See*—
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Erickson, Charles D., to A. O. Smith Corp. Fluid flow meter. 3,313,155, 4–11–67, Cl. 73—259.

Erickson, Don W.: *See*—
Bevard, Roger L., Johnson, and Erickson. 3,356,191.

Erickson, Elmer L. Means for selectively operating plural working members. 3,304,840, 2–21–67, Cl. 91—411.

Erickson, Everett L., to Continental Oil Co. Near-surface velocity logger. 3,353,622, 11–21–67, Cl. 181—.5.

Erickson, Everett L., and J. T. Cherry, to Continental Oil Co. Method and apparatus for obtaining shear wave velocities. 3,354,983, 11–28–67, Cl. 181—.5.

Erickson, Floyd B.: *See*—
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Erickson, Frederick E., to E. W. Bliss Co. Vending machine fluid quantity accumulator and dispensing timer. 3,313,450, 4–11–67, Cl. 221—96.

Erickson, Frederick E., to E. W. Bliss Co. Solenoid operated clutch mechanism. 3,340,975, 9–12–67, Cl. 192—81.

Erickson, Frederick E., to E. W. Bliss Co. Clutch mechanism. 3,355,602, 11–28–67, Cl. 307—141.4.

Erickson, Gerald. Chimed bottle. 3,298,514, 1–17–67, Cl. 206—65.

Erickson, Gerald. Divisible carrying case. 3,343,705, 9–26–67, Cl. 220—23.4.

Erickson, Henry, and H. G. Russell, to Sinclair Research, Inc. Method for transferring a slurry of catalysts to a regeneration zone. 3,295,897, 1–3–67, Cl. 302—66.

Erickson, Henry, and W. L. Disegna, to Sinclair Research, Inc. Method for the manufacture of catalytically active clay. 3,336,240, 8–15–67, Cl. 252—455.

Erickson, Herbert V. Chain saw chain. 3,298,406, 1–17–67, Cl. 143—32.

Erickson, Howard L., to The Dole Valve Co. Direct fill valve. 3,327,729, 6–27–67, Cl. 137—343.

Erickson, Howard L., to The Dole Valve Co. Dual safety valve assembly. 3,333,602, 8–1–67, Cl. 137—614.11.

Erickson, Howard L., to The Dole Valve Co. Thermostatic valve system. 3,337,130, 8–22–67, Cl. 236—12.

Erickson, Howard L., and W. G. Huley, to The Dole Valve Co. Construction for solenoid device. 3,331,042, 7–11–67, Cl. 335—260.

Erickson, Howard L., and W. G. Huley, to The Dole Valve Co. Vending machine valves. 3,342,452, 9–19–67, Cl. 251—118.

Erickson, Howard L., and W. R. McCarty, Jr., to The Dole Valve Co. Solenoid actuated device. 3,348,178, 10–17–67, Cl. 335—251.

Erickson, John E. Paper roll holder. 3,334,832, 8–8–67, Cl. 242—55.53.

Erickson, John J. Wall hanging diaper holder. 3,301,387, 1–31–67, Cl. 206—7.

Erickson, John T.: *See*—
Brown, Gaylord W., and Erickson. 3,329,258.

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Riley, John J., Erickson, and Harding. 3,316,430.

Erickson, John W., to Westinghouse Electric Corp. Dynamoelectric machines. 3,303,369, 2–7–67, Cl. 310—168.

Erickson, John W., to Westinghouse Electric Corp. Dynamoelectric machines. 3,319,100, 5–9–67, Cl. 310—168.

Erickson, John W., to Preco Inc. Load divider support mechanism. 3,319,584, 5–16–67, Cl. 105—376.

Erickson, John W., to Preco Inc. Wall fillers. 3,345,955, 10–10–67, Cl. 105—369.

Ericksen, John W., to Preco Inc. Load divider support mechanism with retainer. 3,358,617, 12–19–67, Cl. 105—376.

Erickson, Kent E., 50% to W. C. Finch. Optical sighting instrument utilizing two annular conical reflecting surfaces. 3,297,390, 1–10–67, Cl. 350—55.

Erickson, Louis A., and E. R. Hogan, to Smith-Berger Mfg. Corp. Yarder. 3,323,780, 6–6–67, Cl. 254—185.

Erickson, Louis A., E. R. Hogan, and B. R. Klinke, to Smith-Berger Mfg. Corp. Spar tower erecting and anchoring system. 3,344,568, 10–3–67, Cl. 52—116.

Erickson, Louis A., B. R. Klinke, and R. I. Karr, to Smith-Berger Mfg. Corp. Power braking and regenerative system. 3,346,237, 10–10–67, Cl. 254—185.

Erickson, Paul N., to Evans Products Co. Phenolic resin cellular materials and method for making same. 3,300,-419, 1–24–67, Cl. 260—2.5.

Erickson, Paul N., to Evans Products Co .Method of protecting surface from fire. 3,320,087, 5–16–67, Cl. 117—137.

Erickson, Raymond C.: *See*—
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Erickson, Raymond C., W. E. Brown, and R. W. Thoma, to E. R. Squibb & Sons, Inc. Process for preparing 1-dehydro steriods. 3,360,439, 12–26–67, Cl. 195—51.

Erickson, Richard W., to International Omni-Pak Corp. Container carrier. 3,344,950, 10–3–67, Cl. 220—102.

Erickson, Robert A., H. N. Short, and R. V. Gillette, to United States of America, Air Force. Automatic test apparatus for displaying semiconductor device characteristic curves. 3,323,059, 5–30–67, Cl. 324—158.

Erickson, Robert L., to C. E. Erickson Co., Inc. Milk carton container. 3,301,428, 1–31–67, Cl. 220—4.

Erickson, Robert W., to The Regents of the University of Minnesota. Wood drying method. 3,309,778, 3–21–67, Cl. 34—5.

Erickson, Roger D., to Honeywell Inc. Electronic flash with automatic termination means. 3,350,603, 10–31–67, Cl. 315—151.

Erickson, Roger D., to Honeywell Inc. Flash lamp controlled by photosensitive light integrating device. 3,350,604, 10–31–67, Cl. 315—151.

Erickson, Roger L., and M. W. Cole, to The Perry Co. Diving board. 3,342,483, 9–19–67, Cl. 272—66.

Erickson Tool Co.: *See*—
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Erickson, Warren E., and R. T. Meinen, Container orientation mechanism. 3,351,175, 11–7–67, Cl. 198—30.

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Clark, Frank L., Johnson, Erickson, and Buchanan. 3,331,-246.

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Faust, Clifford C., and Ericson. 3,309,837.

Ericson, Eric A., to General Electric Co. Handle assembly for circuit breakers. 3,301,989, 1–31–67, Cl. 200—172.

Ericson, Eric A., to General Electric Co. Busway stab contact. 3,331,049, 7–11–67, Cl. 339—252.

Ericson, Eric A., to General Electric Co. Fusible busway plug structure with movable plug carrier member. 3,335,329, 8–8–67, Cl. 317—116.

Ericson, John F. E., to Marvel Industries, Inc. Multiple drum handling device. 3,338,616, 8–29–67, Cl. 294—81.

Ericson, Richard E., to The Kendall Co. Urine collector for infants. 3,295,145, 1–3–67, Cl. 4—110.

Ericson, Richard E., to The Kendall Co. Self-sealing pressure valve or inflatable splints and other devices. 3,332,415, 7–25–67, Cl. 128—87.

Ericson, Richard E., to The Kendall Co. Urine collection bag. 3,343,542, 9–26–67, Cl. 128—275.

Ericsson, Eric A., to Telefonaktiebolaget L M Ericsson. Level control device. 3,306,982, 2–28–67, Cl. 179—16.

Ericsson, James W., and R. E. Prescott, to Bell Telephone Laboratories, Inc. Combination telephone enclosure mounting and shelf. 3,338,002, 8–29–67, Cl. 52—28.

Ericsson, Samuel S. Percussion tool with replaceable point. 3,336,081, 8–15–67, Cl. 299—91.

Ericsson, Sven, and A. O. E. Lenander, to Platmanufaktur, AB. Method of producing conical vessels. 3,348,512, 10–24–67, Cl. 113—120.

Ericsson Telephones Ltd.: *See*—
Reaney, Donald. 3,313,973.

Ericsson Telephones Ltd, Engineers and Manufacturers of Telephone Works: *See*—
Matthews, George A. 3,360,611.

Erie Development Co.: *See*—
Morawski, Frederick P., and Fontecchio. 3,305,090.

Erie Mfg. Co.: *See*—
Engholdt, Richard K. 3,300,148.

Erie Mining Co.: *See*—
Whaley, Henry P., and Johnson. 3,353,758.

Eriez Magnetics: *See*—
Israelson, Arlo F. 3,357,559.

Eriez Mfg. Co.: *See*—
Sosey, William F., and Tenpas. 3,320,564.

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Audrieth, Ludwig F., Eriksen, and Tomlinson. 3,309,-251.

Erikson, Evans W., to Sundstrand Corp. Pressure switch. 3,350,523, 10–31–67, Cl. 200—82.

Erikson, Herman E.: *See*—
Bartlett, Philip D., Erikson, and Sadlow. 3,344,730.

Erikson, Herman E., to Polaroid Corp. Photographic processing apparatus. 3,318,221, 5–9–67, Cl. 95—89.

Erikson, Herman E., to Polaroid Corp. X-ray film cassette for back-reflection laué exposures having film insertion and removal means. 3,330,953, 7–11–67, Cl. 250—68.

Erikson, Herman E., to Polaroid Corp. Photographic processing apparatus. 3,335,652, 8–15–67, Cl. 95—89.

Erikson, Herman E., to Polaroid Corp. Photographic film assembly. 3,357,331, 12–12–67, Cl. 95—13.

Erikson, Herman E., and H. J. Frede, to Polaroid Corp. Photographic products and process. 3,345,176, 10–3–67, Cl. 96—79.

Erikson, J. Alden, and A. N. Salem, to Pittsburgh Plate Glass Co. Production of hexamethylol-melamine and hexakis (methoxy-methyl) melamine. 3,322,762, 5–30–67, Cl. 260—249.6.

Erikson, Robert W., to Sunstrand Corp. Relief and by-pass valve for fuel burners. 3,307,569, 3–7–67, Cl. 137—116.

Erikson, Robert W., and N. E. Swedberg, to Sundstrand Corp. Automatically reversible gear pump. 3,343,494, 9–26–67, Cl. 103—126.

Erikson, Robert W., and N. E. Swedberg, to Sundstrand Corp. Fuel pump assembly. 3,360,190, 12–26–67, Cl. 230—139.

Eriksson, Carl W.: *See*—
Olsson, Dexter A., and Eriksson. 3,349,608.

Eriksson, Elof E., and S. G. Sem-Sandberg, to Telefonaktiebolaget LM Ericsson. Comparator circuit using a transistor gated blocking oscillator. 3,299,282, 1–17–67, Cl. 307—88.5.

Eriksson, Elof E., and H. N. C. Stang, to Telefonaktiebolaget L M Ericsson. Temperature compensated voltage comparison means. 3,344,287, 9–26–67, Cl. 307—88.5.

Eriksson, George J., to Superior Concrete Accessories, Inc. Waler clamp assembly. 3,315,937, 4–25–67, Cl. 249—44.

Eriksson, Gunnar T. Railing. 3,313,527, 4–11–67, Cl. 256—65.

Eriksson, Herbert: *See*—
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Eriksson, Lars G. A., to Svenska Skumslacknings Aktiebolaget. Fire extinguishing apparatus comprising a buoyant hose. 3,297,093, 1–10–67, Cl. 169—4.

Eriksson, Sven, and B. Nyquist, to Swedish Computer A.B. Race track betting data handling system. 3,327,292, 6–20–67, Cl. 340—172.5.

Eriksson, Sven A., M. Fischler, and A. S. Gidlund, to Aktiebolaget Astra Apotekarnes Kemiska Fabriker. Method to produce roentgenographic pictures and composition for realization of the method. 3,340,151, 9–5–67, Cl. 167—66.

Eriksson, Sven-Erik N., to Atlas Copco Aktiebolag. Loader shovels and shovel tilting means. 3,313,437, 4–11–67, Cl. 214—768.

Erk, Amir. Sheet collecting mechanism. 3,345,923, 10–10–67, Cl. 93—93.

Erkel, Norman P., Jr.: *See*—
Bowman, George S., and Erkel. 3,300,639.

Erkers, Nils A.: *See*—
Brunosson, Bengt B., and Erkers. 3,307,756.

Erkes, Joseph P. Apparatus for weaving pile fabrics. 3,295,-561, 1–3–67, Cl. 139—46.

Erkes, Joseph P. Mechanism for regulating pile warp tension in looms. 3,360,012, 12–26–67, Cl. 139—102.

Erkfritz, Donald S., to Futurmill, Inc. Milling tool. 3,354,526, 11–28–67, Cl. 29—96.

Erlander, Stig R., and R. Tobin, to United States of America, Agriculture. Solvent and process for obtaining undepolymerized amyloses. 3,306,772, 2–28–67, Cl. 127—70.

Erlandsen, Oscar, to Thurston Erlandsen Corp. Lightweight cellar doors. 3,340,649, 9–12–67, Cl. 49—367.

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Erlandsen, Oscar. 3,340,649.

Erlandson, Paul M.: *See*—
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Erlandson, Paul M., and D. J. Roth, to Continental Can Co., Inc. Moving hydraulic impulse metal forming device. 3,310,972, 3–28–67, Cl. 72—55.

Erlemann, Gustav, W. Guex, and O. Schnider, to Hoffmann-La Roche Inc. Cosmetic composition exhibiting pantothenic acid activity. 3,322,635, 5–30–67, Cl. 167—90.

Erlemann, Gustav, P. Fabrni, and O. Schnider, to Hoffmann-La Roche Inc. α,α-disubstituted-β-amino propionic acids. 3,328,436, 6–27–67, Cl. 260—404.

Erlenmeyer, Hans. Filter material for tobacco smoke. 3,338,-249, 8–29–67, Cl. 131—261.

Erlenstadt, Gunter, and H. Dorner, to "Rhewum" Rheinische-Werkzeug- und Maschinenfabrik G.m.b.H., Firma. Screen with vibration isolated vibration generator. 3,325,007, 6–13–67, Cl.209—315.

Erlenstädt, Günter, and H. Dörner, to Firma "Rhewum" Rheinische Werkzeug- und Maschinenfabrik G.m.b.H. Screen with spring supported vibratory drive. 3,330,411, 7–11–67, Cl. 209—257.

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Dock, Nils, and Erlesand. 3,347,024.

Erlewine, Richard H., to Standard Change-Makers, Inc. Carrying case. 3,342,316, 9–19–67, Cl. 206—1.

Ermakov, Ivan S., G. M. Kochkin, M. J. Meshengisser, and F. N. Shakhov, to Ukrainsky Nauchno-Issledovatelsky Institute Khimicheskogo Mashinostroenija. Automatic chamber pressure filter. 3,342,123, 9–19–67, Cl. 100—115.

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Farmer, John T. Method and apparatus of excavation. 3,310,124, 3–21–67, Cl. 175—7.

Farmer, Larry B. Chromatographic applicator. 3,358,496, 12–19–67, Cl. 73—61.1.

Farmer, Robert W., to Orange Roller Bearing Co., Inc. Method of making a cage for a roller bearing. 3,353,246, 11–21–67, Cl. 29—148.4.

Farmer, Stanley E., to Cascade Corp. Hose and electrical cable system. 3,314,562, 4–18–67, Cl. 214—650.

Farmer, Stanley E., and H. F. Weinert, to Cascade Corp. Vacuum-operated load grab. 3,326,593, 6–20–67, Cl. 294—64.

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Farney, George K., to S-F-D Laboratories, Inc. Discharge device slow wave circuit wherein the beam alternately interacts with the series and shunt voltage fields of the slow wave structure. 3,358,179, 12–12–67, Cl. 315—3.5.

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Farny, Paul, and K. Hellwig, to Farymann Diesel, Farny & Weidmann. Decompression device for an internal combustion engine. 3,342,169, 9–19–67, Cl. 123—182.

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Faro, Charles, and L. D. Hughes, to Flintkote Co. Apparatus for spraying plastic materials. 3,302,891, 2-7-67, Cl. 239—407.

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Farquhar, John C. Flatform mount for weighing machines. 3,354,973, 11-28-67, Cl. 177—208.

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Farquhar, Melville T., to Reynolds Metals Co. Container and blanks for making same. 3,324,999, 6-13-67, Cl. 206—46.

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Faugeras, Pierre, P. Michel, and X. Talmont, to Commissariat a l'Energie Atomique. Apparatus for dissolving nuclear materials. 3,352,645, 11-14-67, Cl. 23—272.6.

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Faulhaber, Gerhard, D. Voges, E. Penning, H. Wilhelm, and N. Goetz, to Badische Anilin & Soda Fabrik Aktiengesellschaft. Treatment of cellulosic textiles with a crease resisting finish and a copolymer of a N-methylolamide of an acrylic acid for the purpose of reducing wet soiling. 3,322,569, 5-30-67, Cl. 117—139.4.

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Fay, Charles W., and S. Pure, to United States of America, Navy. DC-DC converter including a multivibrator operative at a desired frequency. 3,327,244, 6–20–67, Cl. 331—113.

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Fay, Lawrence P., to Roll-O-Flex Ltd. Hydraulic height controls. 3,356,382, 12–5–67, Cl. 280—43.23.

Fay, Russell A. Motor vehicle oil drip guard. 3,316,995, 5–2–67, Cl. 180—69.1.

Fayer, Ervin, to Pennsalt Chemicals Corp. Industrial process and apparatus. 3,332,167, 7–25–67, Cl. 49—33.

Fayling, Clarence D., and J. A. Prickett, to Rockwell Mfg. Co. Coin compartments, coin vaults or coin storage assemblies. 3,343,783, 9–26–67, Cl. 232—15.

Fayram, David L., to General Motors Corp. Radar system and method testing same. 3,343,168, 9–19–67, Cl. 343—17.7.

Fayram, David L., to General Motors Corp. Radar system with built-in test capacity. 3,344,427, 9–26–67, Cl. 343—17.7.

Fays, Rene, and W. Settele, to Textile & Chemical Research Co. Ltd. Mixing device for spinnerettes. 3,308,503, 3–14–67, Cl. 18—8.

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Fazio, Peter A. Humidifier with throw-away reservoir. 3,323,784, 6–6–67, Cl. 261—130.

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Fearnside, Thomas E., to Mueller Brass Co. Leaded silicon manganese bearing brass. 3,337,335, 8–22–67, Cl. 75—157.5.

Feates, Francis S., and R. S. Sach, to United Kingdom Atomic Energy Authority. Nuclear reactor coolants. 3,335,062, 8–8–67, Cl. 176—58.

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Featherston, John R., to International Business Machines Corp. Timing signal generator with frequency keyed to imput. 3,333,205, 7–25–67, Cl. 328—63.

Featherston, John R., to International Business Machines Corp. Frequency-shift receiver insensitive to distortion and selective fading. 3,348,153, 10–17–67, Cl. 325—320.

Featherstone, Charles B., and B. F. Hawtin, to Richmond Aerosols Ltd. Aerosol dispenser with inner container. 3,300,103, 1–24–67, Cl. 222—389.

Featherstone, Charles B., and B. F. Hawtin, to Richmond Aerosols Ltd. Dispensing containers. 3,312,378, 4–4–67, Cl. 222—389.

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Feay, Darrell C., and T. G. Traylor, to The Dow Chemical Co. Grafting of a vinyl monomer onto a polyvinyl aromatic substrate containing mercury. 3,328,487, 6–27–67, Cl. 260—877.

Fechner, Otto G., W. Kaden, and M. Richter, to Paul Schiebner Kommanditgesellschaft. Dialyze with various connection means. 3,326,380, 6–20–67, Cl. 210—253.

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Fedde, George A., and C. A. Nelson, to Sperry Rand Corp. Double signal to noise ratio in a search memory. 3,316,542, 4–25–67, Cl. 340—174.

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La Porte, Gerald E., Lear, and Whitcher. 3,310,869.

Feddish, Peter. Framing square gauge. 3,296,702, 1–10–67, Cl. 33—95.

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Feder, Allen M., to Texas Instruments Inc. Method and apparatus for exploring the earth with electromagnetic energy. 3,351,936, 11–7–67, Cl. 343—5.

Feder, Allen M., and D. T. Barry, to Texas Instruments Inc. Method of gathering hydrologic and hydrantic data by the use of electromagnetic reradiators. 3,316,551, 4–25–67, Cl. 343—18.

Feder, Friedhelm R., J. R. Thomas, and W. E. Willoughby, to Wedco, Inc. Disc mill. 3,302,893, 2–7–67, Cl. 241—37.

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Fee, Harry R., J. D. Ferguson, and R. W. Lawrence, to Hercules Inc. Aqueous inorganic oxidizer salt blasting compositions containing tamarind seed powder. 3,350,246, 10–31–67, Cl. 149—60.

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Feeman, James F., to Crompton & Knowles Corp. 1:1 chromium complex of 2-hydroxynaphthaleneazo-2-hydroxy-6-nitro-7-naphthalene sulfonic acid solubilized with aliphatic carboxylic acids. 3,305,539, 2–21–67, Cl. 260—150.

Feeman, James F., to Crompton & Knowles Corp. Sulfomethylated bisphenol-formaldehyde condensation products used as dye resists for polyurethane and synthetic polyamide fibers. 3,322,488, 5–30–67, Cl. 8—115.5.

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Fehling, Hans R., and A. D. Street, to I.R.C. Ltd. Ball point writing instrument. 3,352,621, 11–14–67, Cl. 401—109.

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Feichtinger, Heinrich. Method and apparatus for taking samples from melts in order to obtain the gases evolved during solidification. 3,315,529, 4–25–67, Cl. 73—421.5.

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Feighery, James M., and O. R. Caylor, to J. M. Feighery Co. Top feed mechanism for sewing machines. 3,299,844, 1–24–67, Cl. 112—214.

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Feild, George B., to Hercules Inc. Degradable polyolefin mulching film having opaque coating. 3,341,357, 9–12–67, Cl. 117—138.8.

Feild, George B., to Hercules Inc. Cellular polyolefin. 3,341,480, 9–12–67, Cl. 260—2.5.

Feild, George B., and P. L. Johnstone, to Hercules Inc. Expandable partially-foamed and cured polypropylene composition. 3,298,975, 1–17–67, Cl. 260—2.5.

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Fein, Marvin M., N. N. Schwartz, and S. I. Karlan, to Thiokol Chemical Corp. Thermally stable silicate esters. 3,321,505, 5–23–67. Cl. 260—448.8.

Fein, Marvin M., and E. L. O'Brien, to Thiokol Chemical Corp. Fluorine-containing polyesters. 3,332,902, 7–25–67, Cl. 260—31.2.

Fein, Marvin M., D. Grafstein, and J. Bobinski, to Thiokol Chemical Corp. Process for preparing a boron hydride compound. 3,338,684, 8–29–67, Cl. 23—358.

Fein, Marvin M., J. Green, and N. Mayes, to Thiokol Chemical Corp. Carborane substituted siloxanes. 3,354,193, 11–21–67, Cl. 260—448.2.

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Feinberg, Maurice. Electrically controlled thermosensitive actuators for remote control of valves and other devices. 3,317,135, 5–2–67, Cl. 236—68.

Feinberg, Maurice. Thermostatic device. 3,319,467, 5–16–67, Cl. 73—362.3.

Feiner, Alexander, A. Zarouni, and C. W. Zebe, to Bell Telephone Laboratories, Inc. Telephone line range extension circuitry. 3,339,027, 8–29–67, Cl. 179—16.

Feiner, Alfred, R. Hamann, and C. Schopf, to Strabag Bau-A.G. Erection of a dam having an internal apron. 3,299,642, 1–24–67, Cl. 61—31.

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Fekete, Frank, to Union Carbide Corp. Organofunctional silane-hydrolyzable titanate primer compositions. 3,321,350, 5–23–67, Cl. 156—329.

Fekete, Frank, P. J. Keenan, and W. J. Plant, to H. H. Robertson Co. Ethylenically unsaturated di- and tetra-urethane monomers. 3,297,745, 1–10–67, Cl. 260—471.

Fekete, Frank, and P. J. Keenan. Half esters of aryl dialkanolamines as promoters for unsaturated polyester resins. 3,297,789, 1–10–67, Cl. 260—864.

Fekete, Frank, P. J. Keenan, and W. J. Plant, to H. H. Robertson Co. Polyhydroxy polyacrylate esters of epoxidized phenol-formaldehyde novolac resins and laminates therefrom. 3,301,743, 1–31–67. Cl. 161—194.

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Felcheck, Marvin, to American Machine & Foundry Co. Electronic ordering, computing and bill-printing system. 3,314,049, 4–11–67, Cl. 340—172.5.

Felcheck, Marvin, and N. N. Murthy, to American Machine & Foundry Co. Electronic control of printer in restaurant billing system. 3,296,960, 1–10–67, Cl. 101—93.

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Feldman, Julian, and M. Thomas, to National Distillers and Chemical Corp. Process for preparing aminoalkanenitriles. 3,350,439, 10–31–67, Cl. 260—465.5.

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Fender, Clarence L., to Columbia Broadcasting System, Inc. Guitar, and method of manufacturing the same. 3,302,507, 2–7–67, Cl. 84—267.

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Fenton, Aaron J. Axle cap for sports car wheels. 3,346,304, 10–10–67, Cl. 301—108.

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Fettis, Gordon C., and P. J. Thomas, to Imperial Chemical Industries Ltd. Oxidation of hydrocarbons. 3,325,516, 6–13–67, Cl. 260—346.8.

Fettweis, Alfred L. M., to International Standard Electric Corp. Low pass filter for coupling continuous signal through periodically closed gate. 3,303,438, 2–7–67, Cl. 333—70.

Fettweis, Alfred L. M., to International Standard Electric Corp. Resonant transfer communication system. 3,324,247, 6–6–67, Cl. 179—15.

Fettweis, Alfred L. M., to International Standard Electric Corp. Resonant transfer circuits and filters therefor. 3,325,735, 6–13–67, Cl. 325—38.

Fettweis, Alfred L. M., to International Standard Electric Corp. Bandpass filter. 3,344,368, 9–26–67, Cl. 333—72.

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Feuer, Seymour S., to Rohn & Haas Co. Thermoplastic compositions formed by polymerizing methacrylic acid esters and polybutadiene latices. 3,296,339, 1–3–67, Cl. 260—879.

Feuerstein, Seymour, to The Aerospace Corp. Device for pouring liquefied gas. 3,296,809, 1–10–67, Cl. 62—55.

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Fex, Hans J., K. B. Högberg, I. Könyves, and P. H. Kneip, to Aktiebolaget Leo. Certain steroid N-bis-(haloethyl)-carbamates. 3,299,104, 1–17–67, Cl. 260—397.4.

Fey, Mary V. Magnetic impact switch. 3,335,239, 8–8–67, Cl. 200—61.08.

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Fezer, Eberhard, and Simon, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Circular piston machine. 3,321,128, 5–23–67, Cl. 230—145.

Ffenninger, Heinz A., to Geigy Chemical Corp. Certain pyridobenzothiadiazepine derivatives. 3,341,520, 9–12–67, Cl. 260—239.3.

Ffiske, Gerald D., to Stockbuildings Ltd. Ventilation apparatus with control means. 3,352,225, 11–14–67, Cl. 98—33.

Fiala, Ernst J. H., R. Andres, and W. Jurowski, to Daimler-Benz Aktiengesellschaft. Control mechanism. 3,354,906, 11–28–67, Cl. 137—596.2.

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Fichtner, Edward C., to Wells Mfg. Co. Microwave cooking utensil. 3,302,632, 2–7–67, Cl. 126—390.

Ficke, Ralph. Brush and roller extension pole. 3,357,035, 12–12–67, Cl. 15—144.

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Field, Sheldon B., and T. F. Bridges, to John J. McMullen Associates, Inc. Ship stabilizer. 3,349,743, 10–31–67, Cl. 114—125.

Field, Sheldon B., and T. F. Bridges, to John J. McMullen Associates, Inc. Ship stabilizer. 3,356,060, 12–5–67, Cl. 114—125.

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Figgis, Haugan W., to Pace Laboratories, Inc. Breaker point gap setting means. 3,340,751, 9–12–67, Cl. 81—71.

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Fike, Robert G.: *See*—
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Fike, Robert G., to D. G. Griswold. Pressure control valves for fuel lines. 3,359,998, 12–26–67, Cl. 137—220.

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Finelli, Patrick L., and H. A. Bing, to Polaroid Corp. Camera apparatus. 3,350,990, 11-7-67, Cl. 95—13.

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Fischer, Edgar H., to United States of America, Navy. Automation command circuit. 3,348,226, 10-17-67, Cl. 343—225.
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Fluck, Linton A., Jr., P. B. Roth, and W. N. Nakajima, to American Cyanamid Co. Rot-resistant finish for textile materials. 3,317,345, 5-2-67, Cl. 117—138.5.
Fluder, Chester H., and M. R. Heeney, to Vapor Corp. Relay with hinge structure. 3,354,414, 11-21-67, Cl. 335—124.
Flühmann, Heinrich, to Carl Langs Aktiengesellschaft. Device for holding the weft in looms. 3,329,176, 7-4-67, Cl. 139—194.
Fluhmann, Heinrich, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Device for binding fabric edges. 3,360,011, 12-26-67, Cl. 139—54.
Fluhr, Frederick R.: *See*—
McLaughlin, Donald J., and Fluhr. 3,328,793.
Fluhr, Frederick R. Generalized analog differentiator. 3,316,394, 4-25-67, Cl. 235—183.
Fluhr, Frederick R., G. L. Hall, and D. J. McLaughlin, to United States of America, Navy. Video gate. 3,304,550, 2-14-67, Cl. 343—11.
Fluid Controls, Inc.: *See*—
Stark, Donald A. 3,336,891.
Fluid Energy Processing & Equipment Co.: *See*—
Stephanoff, Nicholas N. 3,317,145.
Stephanoff, Nicholas N. 3,329,418.
Stephanoff, Nicholas N. 3,339,286.
Fluid Power Accessories, Inc.: *See*—
McGuire, John R., and Harms. 3,310,068.
Fluid Regulators Corp.: *See*—
Tenkku, Wayland A., and Hribar. 3,339,586.
Fluke, Gordon A., J. W. Keating, D. C. McGehee, and R. A. Peterson, to Aerojet-General Corp. Continuous mixing process for solid resin base propellants. 3,296,043, 1-3-67, Cl. 149—19.
Fluor Corp., Ltd., The: *See*—
Phelps, Peter M. 3,345,048.
Flur, Barry L.: *See*—
Maissel, Leon I., Flur, and Bertelsen. 3,303,116.
Flur, Barry L., to International Business Machines Corp. Process for cathodically sputtering a ferromagnetic thin film of a nickel-iron-molybdenum alloy. 3,303,117, 2-7-67, Cl. 204—192.
Flurscheim, Cedric H., and A. Roxburgh, to Associated Electrical Industries Ltd. Switchgear for high voltage power circuits with removable vacuum switch units. 3,300,609, 1-24-67, Cl. 200—145.
Flurscheim, Cedric H., and A. Roxburgh, to Associated Electrical Industries Ltd. Series connected switches of different types. 3,303,309, 2-7-67, Cl. 200—144.
Flurscheim, Cedric H., and A. Frankel, to Associated Electrical Industries, Ltd. Bearings for rotors. 3,333,904, 8-1-67, Cl. 308—9.
Flury, Karl, to Defensor. Air humidifier. 3,342,466, 9-19-67, Cl. 261—91.
Flushing, William V.: *See*—
Dosch, Thomas J., and Flushing. 3,316,400.
Fly, Anderson B., to Hydro-Jet Services, Inc. Under-reaming machine. 3,316,985, 5-2-67, Cl. 175—24.
Fly, Anderson B., and W. D. McDearman, to Hydro-Torq Pump Co., Inc. Hydraulically driven vehicle. 3,315,756, 4-25-67, Cl. 180—44.
Fly, Anderson B., and W. D. McDearman, Jr., to Hydro-Torq Pump Co., Inc. Fracturing apparatuses. 3,332,496, 7-25-67, Cl. 166—177.
Fly Ash Arrestor Corp., The: *See*—
Bullock, Ellis W. 3,297,239.
Bullock, Ellis W., and Driver. 3,345,806.
Fly, Gale S., and C. M. Leshe, to Bell Telephone Laboratories, Inc. Transistor switching rectifier with controlled conduction. 3,354,380, 11-21-67, Cl. 321—18.
Flyer, Normal F., to Litton Precision Products, Inc. Cathode ray tube including face plate comprising tapered fiber optical elements mounted in an opaque mosaic. 3,303,374, 2-7-67, Cl. 313—92.
Flygstad, Dean W., to The Telex Corp. Self-checking binaural audiometric apparatus and hearing aid simulator. 3,331,925, 7-18-67, Cl. 197—1.7.
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Dahlgren, Jens K. A., and Stahl. 3,306,220.
Stahl, Filip T. 3,304,876.
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Camph, Sven E. 3,338,038.
Flynn, Alfred A., to Mueller Electric Co. Electric terminal clip. 3,321,736, 5-23-67, Cl. 339—255.
Flynn, Charles S. Dynamic flow oven. 3,358,979, 12-19-67, Cl. 263—40.
Flynn, Charles V. Cap and closure for containers. 3,315,830, 4-25-67, Cl. 215—40.

Flynn, Edwin H., to Eli Lilly and Co. 7-alkylmercapto-acetamidocephalosporanic acid. 3,297,692, 1-10-67, Cl. 260—243.

Flynn, Edwin H., to Eli Lilly and Co. Phenalkylmercaptomethyl cephalosporins. 3,324,118, 6-6-67, Cl. 260—243.

Flynn, Edwin H., to Eli Lilly and Co. Halophenylmercaptomethyl cephalosporins. 3,335,136, 8-8-67, Cl. 260—243.

Flynn & Emrich Co.: *See*—
Turner, Charles T., and Appler. 3,302,506.

Flynn, George, to C & J Hampton Ltd. C-Clamp. 3,357,698, 12-12-67, Cl. 269—221.

Flynn, George J., and H. H. Hill, to Honeywell Inc. Trapezoidal waveform generator. 3,312,837, 4-4-67, Cl. 307—88.5.

Flynn, George J., Jr. Electrical switch. 3,354,283, 11-21-67, Cl. 200—152.

Flynn, James P., and E. J. Strayer, to The Dow Chemical Co. Solid propellant formulation based on hydroxylamine perchlorates. 3,305,413, 2-21-67, Cl. 149—19.

Flynn, John H. Control for multiple gas burner installation. 3,300,194, 1-24-67, Cl. 263—6.

Flynn, John H. Method of making jointed polyolefin-coated paperboard products. 3,300,350, 1-24-67, Cl. 156—82.

Flynn, John H. Gas burner of selective flame distribution type. 3,334,820, 8-8-67, Cl. 239—556.

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Le Brasse, Gordon J., and Flynn. 3,305,325.

Flynn, Michael, Mfg. Co.: *See*—
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Flynn, Stanley F. Packaging harness. 3,337,038, 8-22-67, Cl. 206—46.

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Foam Products Corp.: *See*—
Mathews, Howard G. 3,313,073.
Mathews, Howard G. 3,313,674.

Foard, Edmund L.: *See*—
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Foard, James E., F. M. Winkler, F. Hoffman, and M. M. Clemons, Phelps Dodge Corp. Tuyere punching machine. 3,328,016, 6-27-67, Cl. 266—36.

Focella, Antonino, and A. I. Rachlin, to Hoffmann-La Roche Inc. Ammonolysis of 2-halo-2'-benzoyl-4'-nitroacetanilides. 3,335,181, 8-8-67, Cl. 260—562.

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Britton, Philip S., and Fochler. 3,301,734.

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Abplanalp, Robert H., and Focht. 3,326,469.

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Focht, John R., and W. Mildern, to Precision Valve Corp. Cap for dispensing aerosols. 3,314,576, 4-18-67, Cl. 222—402.13.

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Berndt, Edward W., Hladky, and Fockler. 3,296,290.

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Peczkowski, Joseph L., and Fodroci. 3,327,472.

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Foell, Harry J., Jr.: *See*—
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Foellmi, Albert J. Retractible pocket blade holder. 3,314,148, 4-18-67, Cl. 30—162.

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Foellner, Oscar and D. M. Flashing fish lure. 3,308,569, 3-14-67, Cl. 43—17.6.

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Foerster, George S., to The Dow Chemical Co. Process for preparing high strength fabricated articles from aluminum-base alloys containing copper. 3,307,978, 3-7-67, Cl. 148—2.

Foerster, George S., to The Dow Chemical Co. Magnesium-base alloy. 3,320,055, 5-16-67, Cl. 75—168.

Foerster, George S., to The Dow Chemical Co. Magnesium-base alloy. 3,333,956, 8-1-67, Cl. 75—168.

Foerster, George S., and E. L. Hill, to The Dow Chemical Co. Alloy composition. 3,318,693, 5-9-67, Cl. 75—153.

Foerster, George S., and G. D. Lawrence, to The Dow Chemical Co. Sintering of loose particulate aluminum metal. 3,359,095, 12-19-67, Cl. 75—200.

Foerster, James A., to Wabash Magnetics, Inc. Method of making an encapsulated coil bobbin. 3,348,302, 10-24-67, Cl. 29—605.

Foerster, James A., to Wabash Magnetics, Inc. Lead attachment means and method for electrical coils. 3,359,520, 12-19-67, Cl. 336—192.

Foerster, Lewis H., R. H. Livesay, and P. K. Mattheiss, to Sun Oil Co. Heat removed from refluted fluids as a ratio of withdrawn product in fractionation control. 3,331,753, 7-18-67, Cl. 196—132.

Foex, Marc, to Centre National de la Recherche Scientifique. Methods and devices for heating substances by means of radiant energy and plasma heat sources. 3,300,561, 1-24-67, Cl. 13—5.

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Belasco, Norman, and Fogal. 3,329,974.

Fogaty, Peter J.: *See*—
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Fogelberg, Clement V., to Ball Bros. Research Corp. Apparatus for forming hollow tubing. 3,355,769, 12-5-67, Cl. 18—14.

Fogels, Mintauts W., J. K. Gaunt, and J. J. Zagorski, to Massey-Ferguson, Australia Ltd. Harvester for tall row crops. 3,325,982, 6-20-67, Cl. 56—56.

Fogg, Daniel A., to Rapids-Standard Co., Inc. Belt-chain combination drive. 3,306,430, 2-28-67, Cl. 198—127.

Fogg, Daniel A., to The Rapids-Standard Co., Inc. Head for palletizer. 3,313,568, 4-11-67, Cl. 294—64.

Fogg, Daniel A., to Rapistan Inc. Semi-captive platform accumulator. 3,338,382, 8-29-67, Cl. 198—203.

Fogg, Daniel A., to Rapistan Inc. Pressure differential lift device. 3,338,615, 8-29-67, Cl. 294—64.

Fogg, Edward T., and W. H. Gumprecht, to E. I. du Pont de Nemours and Co. Corrosion inhibited poly(hexafluoropropylene oxide) oil compositions. 3,306,853, 2-28-67, Cl. 252—48.4.

Foght, Paul R., Jr., to Clark Publishing Co. Message revealing apparatus. 3,307,849, 3-7-67, Cl. 273—161.

Fogiel, Adolf W., to E. I. du Pont de Nemours and Co. Rubber cement comprising E.P.D. rubber and a paranonyl substituted pheonol-aldehyde novolak resin. 3,331,804, 7-18-67, Cl. 260—33.6.

Fogle, Gene E., to Martin Mfg. Co. Animal holding and sorting pen. 3,299,856, 1-24-67, Cl. 119—99.

Fogleman, Harry F.: *See*—
Van Dorn, William G., and Fogleman. 3,319,595.

Fogleman, Harry F., to Aeromarine Electronics, Inc. Switching device. 3,307,042, 2-28-67, Cl. 307—88.5.

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Stancell, Arnold F., Borecht, and Foglia. 3,347,695.

Foglia, Sebastien: *See*—
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Fogt, Thomas H., and T. J. Brinkman, to General Motors Corp. Plural level fill system for washer apparatus. 3,344,625, 10-3-67, Cl. 68—12.

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Bredereck, Hellmut, Fohlisch, and Franz. 3,347,954.

Fohrmann, Ernest F., and M. H. Brown, to United States of America, Navy. RF shielded switch for safety-arming devices. 3,311,058, 3-28-67, Cl. 102—70.2.

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Simon, Albert B., and Fohs. 3,324,714.

Folas, Pavel, G. Enache, and D. Bergman, to Comitetul de Stat Pentru Cultura si Arta. Shut feed deflector and interrupter responsive to photoelectric sheet position sensing means. 3,310,304, 3-21-67, Cl. 271—57.

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Kohler, Jacob W. L., Fokker, and Meeijer. 3,355,882.
Reinhoudt, Jacobus P., and Fokker. 3,318,100.

Fokker, Herman, R. J. Meyer, G. Prast, and K. Roozendaal, to North American Philips Co. Inc. Device comprising at least one sealing element between two coaxially arranged elements which are movable with respect to each other. 3,302,392, 2-7-67, Cl. 60—24.

Folberth, Otto G., to Siemens-Schuckerwerke Aktiengesellschaft. Method of producing and re-melting compounds and alloys. 3,318,669, 5-9-67, Cl. 23—315.

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Menn, Jacob J., Folckemer, and Miller. 3,344,021.

Folckemer, Frank B., R. E. Hanson, and A. Miller, to Shell Oil Co. Resin compositions comprising organophosphorus pesticides. 3,318,769, 5-9-67, Cl. 167—42.

Foldenauer, Ralph M., to Bloomer-Fiske, Inc. Steam cooking apparatus. 3,316,829, 5-2-67, Cl. 99—234.

Foldessy, Justin E., to United States Steel Corp. Continuous casting apparatus having mold plug. 3,318,366, 5-9-67, Cl. 164—274.

Foldessy, Justin E., to United States Steel Corp. Apparatus for bending a casting having a liquid core. 3,338,297, 8-29-67, Cl. 164—274.

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George, Melvin J., and Foldy. 3,331,916.

Foley, Gerard X. Book support. 3,330,524, 7-11-67, Cl. 248—441.

Foley, James P. Squeeze bottle and support cap. 3,342,379, 9-19-67, Cl. 222—173.

Foley, Kenneth C., to Affiliated Hospital Products, Inc. Pulsating body supporting pad with alternately inflatable, superposed cells. 3,297,023, 1-10-67, Cl. 128—33.

Foley, Thomas P., to Potter Instrument Co., Inc. Laminated timing wheel for high speed printers. 3,353,483, 11-21-67, Cl. 101—93.

Foley, William E., to American Optical Co. Positionally adjustable microscope illuminator. 3,322,481, 5-30-67, Cl. 350—87.

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Folkers, Karl, and A. C. Page, Jr., to Merck & Co., Inc. Preservation of sperm. 3,306,818, 2-28-67, Cl. 167—53.2.

Folkers, Karl, and H. W. Moore, to Merck & Co., Inc. Preparation of chromanols. 3,329,689, 7-4-67, Cl. 260—345.2.

Folkers, Karl, and D. E. Wolf, to Merck & Co., Inc. Derivatives of coenzyme Q$_{10}$. 3,346,595, 10-10-67, Cl. 260—345.5.

Folkers, Karl A.: *See*—
Wagner, Arthur F., and Folkers. 3,331,739.

Folkerts, Henry. Traction hitch. 3,346,273, 10-10-67, Cl. 280—457.

Folkerts, Walter E., to Chrysler Corp. Method of making and assembling steering gear parts. 3,346,937, 10-17-67, Cl. 29—159.2.

Folkerts, Walter E., to Chrysler Corp. Power steering gear. 3,359,866, 12-26-67, Cl. 91—375.

Folkman, Bern D., and S. D. Thornton, Jr., to Pharmaseal Laboratories. Collection system for body fluids. 3,357,429, 12-12-67, Cl. 128—275.

Foll, Gerhard: *See*—
Spohn, Karl, and Foll. 3,354,763.

Follen, Robert J., and B. H. Thue, to Honeywell Inc. Radar range tracking apparatus. 3,328,796, 6-27-67, Cl. 343—7.3.

Föller, Werner, to Klein Schanzlin and Becker Aktiengesellschaft. Thermostatically controlled valve for a steam trap or the like. 3,353,746, 11-21-67, Cl. 236—59.

Folley, Cranston W., to Maremont Corp. Needle bearing mounted universal joint. 3,304,744, 2-21-67, Cl. 64—18.

Follmer, Richard W.: *See*—
Burge, Joseph C., and Follmer. 3,314,595.

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Mueller, Chester E., and Follrath. 3,330,144.

Follrath, Richard D., to Anaconda Wire and Cable Co. Edge-forming apparatus and method. 3,336,778, 8-22-67, Cl. 72—203.

Folmsbee, Clyde H., and R. G. Portis, to Midland Mfg. Corp. Safety vent. 3,310,197, 3-21-67, Cl. 220—89.

Folsom, William A. Comparison read-out circuit. 3,353,164, 11-14-67, Cl. 340—173.

Folta, John J., to Hoover Ball and Bearing Co. Wire gulding apparatus. 3,319,667, 5-16-67, Cl. 140—147.

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Folts, Ralph A.: *See*—
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Foltz, Charles J., to United States of America, Navy. Bourdon tube gage assembly. 3,327,534, 6-27-67, Cl. 73—418.

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Folzenlogen, Paul D., and M. B. Edwards, to Eastman Kodak Co. Polymerization catalyst residue removal by hydrogenation. 3,331,824, 7-18-67, Cl. 260—88.2.

Fombonne, Paul, to CSF-Compagnie Generale de Telegraphie Sans Fil. Multiple rotating beams radio guiding systems. 3,298,026, 1-10-67, Cl. 343—106.

Fomenko, Sergei M., to The Bunker-Ramo Corp. Character recognition method and apparatus. 3,346,845, 10-10-67, Cl. 340—146.3.

Fomin, Alexel A.: *See*—
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Fonden, Per B., to Borgs Fabriks AB. Arrangement in transport systems for connecting trucks or the like. 3,357,368, 12-12-67, Cl. 104—172.

Fonden, Per B., and S. B. Mattsson, to Borgs Fabriks AB. Device for switch in track system. 3,356,039, 12-5-67, Cl. 104—130.

Fonden, Per B., and K. O. T. Walander. Device for braking a landing aircraft. 3,356,319, 12-5-67, Cl. 244—110.

Fondrk, Victor V., to Carrier Corp. Fluid recovery system with improved entrainment loss prevention means. 3,341,429, 9-12-67, Cl. 203—95.

Foner, Max, and A. C. York. Apparatus for indicating potentials of living tissue. 3,323,515, 6-6-67, Cl. 128—2.06.

Fong, William: *See*—
Rawcliffe, Gordon H., and Fong. 3,299,337.
Rawcliffe, Gordon H., and Fong. 3,302,087.
Rawcliffe, Gordon H., and Fong. 3,308,363.

Fonken, Gunther S.: *See*—
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Fonken, Gunther S., M. E. Herr, and H. C. Murray, to The Upjohn Co. Oxygenated dicycloalkyl sulfones. 3,304,323, 2-14-67, Cl. 260—488.

Fonken, Gunther S., M. E. Herr, and H. C. Murray, to The Upjohn Co. 1-benzenesulfonyl-3-(oxocycloalkyl)-ureas and the cyclic alkylene ketals thereof. 3,352,884, 11-14-67, Cl. 260—340.9.

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May, Ernest M., and Fono. 3,302,992.
May, Ernest M., and Fono. 3,341,277.

Fono, Laszlo. Method for pancake production. 3,349,726, 10-31-67, Cl. 107—54.

Foas, Lloyd, and E. B. Tickell, Jr., to Pan Geo Atlas Corp. Method and apparatus for producing a plurality of curves for comparison in acoustic well logging. 3,334,329, 8-1-67, Cl. 340—18.

Font, Antonio F. Apparatus for drying clothing and similar articles in a drum. 3,302,302, 2-7-67, Cl. 34—133.

Fontaine, Gaston A.: *See*—
Denis, Jean, Fontaine, and Molin. 3,359,400.

Fontaine, Jean-Claude, to Societe Anonyme des Ateliers d'Aviation Louis Breguet. Aircraft feel simulator. 3,303,714, 2-14-67, Cl. 74—470.

Fontaine, John G. Changeable exhibitor. 3,336,687, 8-22-67, Cl. 40—32.

Fontaine, John G. Air motor. 3,336,841, 8-22-67, Cl. 91—396.

Fontaine, John P. K., and J. C. Heslip; said Heslip assor. to said Fontaine. Wedge locking device for fifth-wheel king pin. 3,318,616, 5-9-67, Cl. 280—434.

Fontaine, Louis, to Lipha, Lyonnaise Industrielle Pharmaceutique. Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. 3,328,258, 6-27-67, Cl. 167—65.

Fontaine, Ludger A., to Barrows Industries, Inc. Self-piercing ear wire. 3,345,830, 10-10-67, Cl. 63—13.

Fontaine, Paul J., to Westinghouse Air Brake Co. Wood chipper. Re. 26,323, 12-19-67, Cl. 241—28.

Fontaine, Robert R., and W. H. Sturdevant, to General Precision, Inc. Circuit for computing simulated range. 3,311,741, 3-28-67, Cl. 235—184.

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Fontano, Loretta: *See*—
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Fontenot, Ison G. Degasification of drilling mud. 3,303,895, 2-14-67, Cl. 175—66.

Fontenot, Ison G., and E. F. Snyder, to International Minerals & Chemical Corp. Drilling fluids and additive therefor. 3,322,668, 5-30-67, Cl. 252—8.5.

Fonti, Rocco P. Systems for underwater sandblasting. 3,323,257, 6-6-67, Cl. 51—8.

Foo Jung Enterprises, Ltd.: *See*—
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Foo, William. Lawn edge trimmers. 3,326,299, 6-20-67, Cl. 172—13.

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O'Connor, Kenneth F. 3,301,292.

Food Industries Research & Engineering: *See*—
Carlsen, Earl W. 3,337,049.

Fooshe, Wesley K., Jr.: *See*—
Clifford, Alfred T., Fooshe, and Gore. 3,316,117.

Foote, Allan E., to Container Corp. of America. Combination mold-shipping container for slabbed moldable material. 3,339,727, 9-5-67, Cl. 206—65.

Foote, Allen M. Piano instruction aid. 3,359,846, 12-26-67, Cl. 84—478.

Foote, Charles L., Jr., E. A. Knowlton, and W. D. Batterson; said Foote and said Knowlton assors. to said Batterson. Threaded nut lock. 3,336,962, 8-22-67, Cl. 151—19.

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Benmel, Oscar F., Jr. 3,346,506.
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Verdleck, Ralph G., and Benmel. 3,337,308.

Foote, Richard H., to International Telephone and Telegraph Corp. Image dissector tube field mesh. 3,329,856, 7-4-67, Cl. 315—11.

Foote, Ronald S. Strand brake for load lowering assembly. 3,357,520, 12-12-67, Cl. 188—65.3.

Foote, Ruth G. Tub with removable liner. 3,300,790, 1-31-67, Cl. 4—185.

Foppelman, Ake. Toothbrush. 3,302,230, 2-7-67, Cl. 15—167.

Foppes, Lukas M., to Aircraft Radio Corp. Square wave generator circuit. 3,311,752, 3-28-67, Cl. 307—88.5.

Foran, David A., L. Z. Hall, and J. C. Kimpton, to Palmer-Shile Co. Drive-in and drive-through storage racks. 3,323,655, 6-6-67, Cl. 211—134.

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Forster, Harry, to Veb Lokomotivbau-Elektrotechnische Werke Hans Beimler. Apparatus for supporting a melting. 3,333,627, 8–1–67, Cl. 164—282.

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Fox, Richard J., and C. J. Borkowski, to United States of America, Atomic Energy Commission. Surface-barrier diode for detecting high energy particles and method for preparing same. 3,320,495, 5–16–67, Cl. 317—234.

Fox, Richard S., and E. W. Yurgealitis, to Xerox Corp. Supervisory control system for xerographic facsimile receiver. 3,303,280, 2–7–67, Cl. 178—6.6.

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Foyster, Clive J. Apparatus for gravity separation of materials. 3,347,377, 10–17–67, Cl. 209—458.

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Franzen, Gustav, to Palitex Project-Co. G.m.b.H. Method of and apparatus for controlling bobbin change in double-twist machines. 3,316,698, 5–2–67, Cl. 57—53.

Franzen, Gustav, to Palitex Project-Co. G.m.b.H. Double twist frame. 3,319,410, 5–16–67, Cl. 57—34.

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Franzene, Robert D., to Deltrol Corp. Snap action electrical switch. 3,320,379, 5–16–67, Cl. 200—76.

Franzmann, Karl, to Babcock & Wilcox, Ltd. Vapor generator wall construction. 3,299,858, 1–24–67, Cl. 122—6.

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Fraser, David B., E. M. Gyorgy, R. C. Le Craw, and F. J. Schnettler, to Bell Telephone Laboratories, Inc. Temperature-stable sonic transmission elements comprising crystalline materials containing Jahn-Teller ions. 3,296,555, 1–3–67, Cl. 331—157.

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Fraser, Frank. Devices for supplying materials. 3,322,307, 5–30–67, Cl. 222—207.

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Fraze, Ermal C. Can top and method of making same. 3,326,-405, 6-20-67, Cl. 220—54.

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Frazelle, Jay B., and R. F. Williams. Combined golfer's towel, brush and cleat cleaner. 3,350,736, 11-7-67, Cl. 15—113.

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Frazier, August H., to E. I. du Pont de Nemours and Co. Polymeric 1,3,4-thiadiazoles and the process for their preparation. 3,357,956, 12-12-67, Cl. 260—79.

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Frazier, Donald. Clamping brackets for a rack structure. 3,335,992, 8-15-67, Cl. 248—245.

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Frazier, Orville Z. Hot air rotisserie engine attachment. 3,322,-061, 5-30-67, Cl. 99—421.

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Frech, Kenneth J., to The Goodyear Tire & Rubber Co. Olefin pyrolysis initiators. 3,317,626, 5-2-67, Cl. 260—680.

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Frederiksen, Hans E. Machine for treating pig carcasses, more particularly head and legs. 3,304,575, 2-21-67, Cl. 17—17.

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Fredkin, Edward, to Information International, Inc. High-speed film reading. 3,340,359, 9-5-67, Cl. 178—7.88.

Fredley, James C., and G. E. Sleighter, to Pittsburgh Plate Glass Co. Method of annealing sheets of glass on a decreasing temperature gas support. 3,332,761, 7-25-67, Cl. 65—25.

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Freed, George H. Firing mechanism for firearms. 3,337,979, 8-29-67, Cl. 42—65.

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Freed, Meier E., and L. M. Rice, to American Home Products, Corp. Substituted 4-piperidino-butyrophenone oximes. 3,316,566, 3-21-67, Cl. 260—293.

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Freed, Meier E., and E. Hertz, to American Home Products Corp. 4,4'-diamino-butyrophenones. 3,317,538, 5-2-67, Cl. 260—268.

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Freed, Rudolph J., to Bak-Kraft Corp., Ltd. Bread dough making machine. 3,332,369, 7-25-67, Cl. 107—40.

Freedlander, Abraham L., R. E. Matthews, and W. C. Garrett, to Dayco Corp. Lawn mower blade. 3,343,350, 9-26-67, Cl. 56—295.

Freedlander, Abraham L., R. E. Matthews, and W. C. Garrett, to Dayco Corp. Flexible lawn mower blade. 3,343,351, 9-26-67, Cl. 56—295.

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Freedlander, Abraham L., R. E. Matthews, and W. C. Garrett, to Dayco Corp. Flexible lawn mower blade. 3,343,354, 9-26-67, Cl. 56—295.

Freedlander, Abraham L., R. E. Matthews, and W. C. Garrett, to Dayco Corp. Lawn mower blade. 3,343,355, 9-26-67, Cl. 56—295.

Freedman, Allan R., and J. T. Massengale, to FMC Corp. Method for the preparation of controlled molecular weight acrylonitrile copolymers using tetrahydronaphthalene as regulator. 3,299,018, 1-17-67, Cl. 260—85.5.

Freedman, Bernard, to Chevron Research Co. 1,1,2,2-tetrahaloethyl alkanethiolsulfonates. 3,332,976, 7-25-67, Cl. 260—453.

Freedman, Bernard, L. K. Beach, and A. E. Messner, deceased, by Marilyn Messner, to Esso Research and Engineering Co. Difluoroamino compounds and the preparation thereof. 3,347,923, 10-17-67, Cl. 260—583.

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Freedman, Hyman. Dental sprayers or atomizers. 3,342,178, 9-19-67, Cl. 128—173.1.

Freedman, Hyman. Multiple fluid dental instrument with mirror actuated valve. 3,352,305, 11-14-67, Cl. 128—173.2.

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Freedman, Robert N., to Endura Appliance Corp. Cutting or slicing apparatus. 3,308,536, 3-14-67, Cl. 30—272.

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Netz, Norman, Bauman, Baranowski, and Freedman. 3,343,310.

Freeland, Andrew F., to Westinghouse Air Brake Co. Fool proof battery connector. 3,339,169, 8-29-67, Cl. 339—17.

Freeland, Elmer E. Variable transmission gear shift for bicycles. 3,352,173, 11-14-67, Cl. 74—473.

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Freeland, Royden R., to International Crystal Mfg. Co. Transistor crystal oscillator with P1 filter feedback. 3,311,848, 3-28-67, Cl. 331—116.

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Freeman, Alfred. Conveyor systems. 3,333,672, 8-1-67, Cl. 198—1.

Freeman, Alfred B. Chorus effects systems. 3,347,973, 10-17-67, Cl. 84—1.24.

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Freeman, Arthur H., and H. M. Forman, to General Electric Co. Electric slicing knife. 3,308,535, 3-14-67, Cl. 30—272.

Freeman, Arthur H., and H. M. Forman, to General Electric Co. Electric knife storage case and battery charger. 3,348,-116, 10-17-67, Cl. 320—2.

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Freeman, Dennis H., G. Jeffrey, W. E. Weaver, and G. C. Y. Holland, to Lansing Bagnall, Ltd. Wheeled trolley with brake and hitch interlock. 3,313,378, 4-11-67, Cl. 188—21.

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Fried, Alexander. Drawing system. 3,323,416, 6-6-67, Cl. 88—24.

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Fried, John, T. S. Bry, and A. A. Patchett, to Merck & Co., Inc. 17α-trifluorovinyl androstenes. 3,300,518, 1-24-67, Cl. 260—397.4.

Fried, John, J. Hannah, and A. A. Patchett, to Merck & Co., Inc. 16-fluoro-androstenes and estrenes containing a 17-unsaturated halogenated hydrocarbon side chain. 3,320,289, 5-16-67, Cl. 260—397.4.

Fried, John, and T. F. Bry, to Merck & Co., Inc. 17α-unsaturated - halohydrocarbon-17β-hydroxy-19-nor-4,9-androstadiene-3-one 17-ethers. 3,337,537, 8-22-67, Cl. 260—239.5.

Fried, John, T. S. Bry, and A. A. Patchett, to Merck & Co., Inc. 17β-hydroxy-17α-halohydrocarbon-19-nor-androst-4-ene-3-ones and the $\Delta^{5(9)}$ isomers thereof. 3,340,251, 9-5-67, Cl. 260—239.5.

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Fried, Josef, to E. R. Squibb & Sons, Inc. Acetals and ketals of 6-alkyl-16,17-dihydroxyprogesterone and intermediate therefor. 3,349,085, 10-24-67, Cl. 260—239.55.

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Friedel, Murray, to Visual Graphics Corp. Automatic focusing optical system. 3,340,766, 9-12-67, Cl. 88—24.

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Friedman, Jack. Laundry package. 3,322,674, 5-30-67, Cl. 252—90.

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Frisby, Thomas M., to Eastman Oil Well Survey Co. Whipstocks. 3,339,636, 9-5-67, Cl. 166—117.5.

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Frisch, Erling, to Westinghouse Electric Corp. Controlled leakage face type seals. 3,347,552, 10-17-67, Cl. 277—27.

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Fritsch, Felix, to Simmering-Graz-Pauker Aktiengesellschaft for Maschinen-, Kessel- und Waggonbau. Epicyclic gears. 3,315,547, 4–25–67, Cl. 74—801.

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Fritz, William E., to Union Tank Car Co. System for discharging finely divided material from a container. 3,322,469, 5–30–67, Cl. 302—52.

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Fukushima, Osamu, and H. Hayanami, to Kurashiki Rayon Co. Ltd. Process for the producing of synthetic leathers and similar shaped articles. 3,335,206, 8–8–67, Cl. 264—6.

Fukushima, Osamu, and K. Imai, to Kurashiki Rayon Co. Ltd. Method of manufacturing synthetic fibers containing crystalline isotactic polystyrene having excellent physical properties. 3,342,920, 9–19–67, Cl. 264—184.

Fukushima, Osamu, K. Noda, and T. Kishida, to Kurashiki Rayon Co., Ltd. Method of producing gas-permeable elastic polyurethane films. 3,348,963, 10–24–67, Cl. 117—63.

Fukushima, Yasuichi, to The Hatsuta Mfg. Co., Ltd. Method of forming a foam fire-extinguisher including deep drawing the tank body. 3,327,381, 6–27–67, Cl. 29—469.

Fukuske Kabushiki Kaisha: *See*—
Yamagiwa, Juji. 3,296,988.

Fukuzaki, Fukuhichi, to Kabushiki Kaisha Obara Koguku Garasu Seizosho. Process and apparatus for manufacturing elongated glass products. 3,303,011, 2–7–67, Cl. 65—88.

Fukuzawa, Heihachiro, T. Namba, Y. Niwa, and T. Uchino, to Ashai Glass Co., Ltd. Process for the production of chlorine. 3,323,871, 6–6–67, Cl. 23—219.

Fulchino, Salvatore A. Automatic logging system. 3,321,767, 5–23–67, Cl. 346—34.

Fuld, Jerome R.: *See*—
Yazejian, Zaven, Fuld, and Benkler. 3,300,017.

Fulenwider, Julian L.: *See*—
Wolfe, Larry W., and Fulenwider. 3,326,114.

Fulgenzi, Crescenzo F.: *See*—
Hartwig, Jurgen, Mandorf, Fulgenzi, Norris, Roisen, and Lerch. 3,319,702.

Fulghum Industries, Inc.: *See*—
Ledergerber, Karl. 3,335,771.

Fulk, James B., to Paper Converting Machine Co., Inc. Multiple transfer form and method of making the same. 3,305,247, 2–21–67, Cl. 282—11.5.

Fulk, Walter F.: *See*—
Smock, George E., and Fulk. 3,295,942.

Full Mold Process, Inc.: *See*—
Krzyzanowski, Erich M. 3,295,175.
Krzyzanowski, Erich M., and Schweikert. 3,339,620.
Wittmoser, Adalbert. 3,302,256.
Wittmoser, Adalbert, Schade, and Krzyzanowski. 3,314,116.

Fullam, Harold T.: *See*—
Lam, Hung K. H., and Fullam. 3,304,156.

Fullam, Harold T., and H. V. Seklemian, to Stauffer Chemical Co. Process for the production of nitrogen fluorides. 3,304,248, 2–14–67, Cl. 204—178.

Fullenkamp, Eugene H.: *See*—
Hillenbrand, William A., and Fullenkamp. 3,358,319.

Fuller, Acil R.: *See*—
Myers, Elman B. 3,354,343.

Fuller, Charles H. Pipe carrier attachment. 3,329,324, 7–4–67, Cl. 224—42.45.

Fuller, Clyde S.: *See*—
Sandlin, John R., and Fuller. 3,354,438.

Fuller Co.: *See*—
Krauss, Werner. 3,348,589.
Lenhart, Herbert S. 3,357,748.
Maberry, John H. 3,358,385.
Richter, Philip. 3,310,913.
Smith, Elbridge M. 3,325,979.

Fuller, Donald B., and J. Robinson, to Kollar Kap Corp. Soil pipe cover. 3,348,725, 10–24–67, Cl. 220—42.

Fuller Electric Ltd.: *See*—
Lighton, John W., and Moate. 3,298,623.
Moate, Leslie F. 3,341,145.

Fuller, Forney, Jr. Rotatable filtering unit. 3,326,381, 6–20–67, Cl. 210—330.

Fuller, George: *See*—
Bennett, Royston H., and Fuller. 3,300,537.

Fuller, George C.: *See*—
Sub, Nam P., and Fuller. 3,299,812.

Fuller, George C., to Fiberply (Proprietary) Ltd. Process for producing corrugated plywood and apparatus therefor. 3,338,767, 8–29–67, Cl. 156—206.

Fuller, George H., and W. O. Tundermann, to Colgate-Palmolive Co. Scouring pad. 3,324,500, 6–13–67, Cl. 15—539.

Fuller, Gordon W.: *See*—
Fuller, John C., G. W., R. A. and W. I. 3,352,013.

Fuller, Harrison W., and R. J. Spain, to Laboratory for Electronics, Inc. Magnetic film display device. 3,347,614, 10–17–67, Cl. 350—162.

Fuller, Harry C., to United States of America, Interior. Process for decomposing manganese sulfate to form manganous oxide and sulfur dioxide. 3,301,634, 1–31–67, Cl. 23—145.

Fuller, Harry K. Fishing pole holder. 3,319,911, 5–16–67, Cl. 248—42.

Fuller, Jack W. Electric soldering iron having a thermally insulated handle. 3,336,462, 8–15–67, Cl. 219—227.

Fuller, John C., G. W., R. A. and W. I. Apparatus for venting pneumatic tires. 3,352,013, 11–14–67, Cl. 30—368.

Fuller, Kathleen B.: *See*—
Greene, Janice L., and Fuller. 3,352,886.

Fuller, Lawrence E., to Byron Jackson, Inc. Power operated applicator tool for pipe protectors. 3,353,252, 11–21–67, Cl. 29—236.

Fuller, Luther T.: *See*—
Ellison, William M., Jr., Fuller, and Poston. 3,347,035.

Fuller, Mack F.: *See*—
Fisher, Charles F., and Fuller. 3,322,696.

Fuller, Marvin A.: *See*—
Hagenauer, Richard G., Fuller, Reiter, and Anderson. 3,307,618.

Fuller, Maurice D., to Korry Mfg. Co. Relampable cap assembly with cam-seated lamp holder members. 3,302,195, 1–31–67, Cl. 340—381.

Fuller Merriam Co., The: *See*—
Gallagher, Thomas P. 3,341,355.

Fuller, Ralph A.: *See*—
Fuller, John C., G. W., R. A. and W. I. 3,352,013.

Fuller, Ray A. Multi can package. 3,300,041, 1–24–67, Cl. 206—65.

Fuller, Revilo. Collapsible self-supporting core. 3,338,546, 8–29–67, Cl. 249—178.

Fuller, Richard B. Octahedral building truss. 3,354,591, 11–28–67, Cl. 52—81.

Fuller, Robert A., F. E. Dorsey, and C. W. Kulig, to Emhart Corp. Glassware annealing method. 3,318,673, 5–9–67, Cl. 65—118.

Fuller, Walter, and H. Stohler, to Hoffmann-La Roche Inc. Parenteral compositions containing antimony (III) complex of 2,3-dimercapto-succinic acid. 3,321,367, 5–23–67, Cl. 167—55.

Fuller, William I.: *See*—
Fuller, John C., G. W., R. A. and W. I. 3,352,013.

Fullman, Carl H., to United States of America, Air Force. Laser initiated rocket type igniter. 3,300,968, 1–31–67, Cl. 60—39.82.

Fullwood, R. J., & Bland Ltd.: *See*—
Skett, Herbert E. 3,317,028.

Fulmer, George M., and K. Y. Messick, to Gichner Mobile Systems, Inc. Pallet lifting and transporting device. 3,339,766, 9–5–67, Cl. 214—394.

Fulmer, John R.: *See*—
Beach, Herbert S., and Fulmer. 3,312,271.

Fulmer, Richard W., and E. R. Rogier, to General Mills, Inc. Polyamide compositions based on diamines derived from diphenyl oxide. 3,357,935, 12–12–67, Cl. 260—18.

Fulmor, Theodore G.: *See*—
Arentzen, Charles, Fulmor, and Holderreed. 3,351,462.

Fulp, William M., to Western Electric Co., Inc. Strip transmission line interboard connection. 3,303,439, 2–7–67, Cl. 333—84.

Fulrath, Richard M.: *See*—
Rossi, Ronald C., and Fulrath. 3,343,915.

Fulthorpe, Arthur J., to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of bonding protein antigen to mammalian red blood cells. 3,322,634, 5–30–67, Cl. 167—84.5.

Fulton, Clifford M., to Kleineider-Fulton Co. Ski carrier and locking device. 3,307,759, 3–7–67, Cl. 224—45.

Fulton, Clifford M., to Kleineider-Fulton Co. Ski carrier for vehicles. 3,325,069, 6–13–67, Cl. 224—42.1.

Fulton, Clyde E.: *See*—
Bentz, Erwin J. H., Costa, and Fulton. 3,359,385.

Fulton, Donald L., R. S. Reel, J. L. Reeve, J. A. Stahmann, and J. G. Vehige, to North American Aviation, Inc. Extensible rocket nozzle comprised of a coated flexible mesh subsequently deployed and heated to become impermeable. 3,346,186, 10–10–67, Cl. 239—11.

Fulton, Garland L.: *See*—
Skidmore, Richard H., and Fulton. 3,323,222.

Fulton, Howard A., C. D. Obrecht, and V. D. Flinner, to Mansfield Sanitary, Inc. Toilet with deformable water seal trap. 3,302,216, 2–7–67, Cl. 4—69.

Fulton, Joseph W., Jr. Environmental control apparatus. 3,319,946, 5–16–67, Cl. 261—129.

Fulton, Robert A., and E. O. Haenni, to United States of America, Agriculture. Ethylene oxide sterilizing agent. 3,359,159, 12–19–67, Cl. 167—39.

Fulton, Robert R., to De Kalb Toys, Inc. Combination of pole anchor with a gym set or the like. 3,295,274, 1–3–67, Cl. 52—148.

Fulton, Robert W. Multi-purpose ignition test unit. 3,300,-713, 1-24-67, Cl. 324—16.

Fulton, Ronald T.: *See*—
Johnson, Otto E., and Fulton. 3,305,025.

Fulton, Ronald T., to International Harvester Co. Leveling apparatus for two-way plow. 3,305,026, 2-21-67, Cl. 172—222.

Fulton, Samuel K. Marine facilities. 3,306,053, 2-28-67, Cl. 61—48.

Fulton, Samuel R., to The Akron Standard Mold Co. Tire building drum. 3,346,434, 10-10-67, Cl. 156—415.

Fultz, Russel E.: *See*—
Osborn, Carroll H., and Fultz. 3,313,319

Fulukawa, Hideyuki: *See*—
Matsuda, Iwao, Shiga, Fulukawa, and Kanemitsu. 3,340,-069.

Fumea, Harry J., Jr., to United States of America, Air Force. Pulse to pulse power control system. 3,298,025, 1-10-67, Cl. 343—17.1.

Fumea, Judith G. Maternity belt. 3,315,670, 4-25-67, Cl. 128—95.

Fumoto, Syozo: *See*—
Kometani, Yutaka, Tatemoto, and Fumoto. 3,331,822.

Funahashi, Kohei, and T. Chujo, to Tokyo Shibaura Electric Co., Ltd. Image pickup tube with a mesh electrode supported by a ring. 3,325,672, 6-13-67, Cl. 315—10.

Funahashi, Takaji. Process for producing composite porous material. 3,342,911, 9-19-67, Cl. 264—46.

Funakubo, Shinnosuke. Band saw and the sawing device thereof. 3,304,968, 2-21-67, Cl. 143—17.

Funakubo, Shinnosuke. Band sawing machine. 3,354,767, 11-28-67, Cl. 83—201.14.

Funatsu, Makoto, Y. Torimae, S. Arai, and H. Kita, to Kao Soap Co., Ltd. Process for the purification and concentration of cobalt and nickel. 3,336,133, 8-15-67, Cl. 75—119.

Funck, Dennis L.: *See*—
Brown, Northrop, Funck, and Schweitzer. 3,340,234.

Funck, Dennis L., and V. C. Wolff, Jr., to E. I. du Pont de Nemours and Co. Preparing aqueous polymer dispersions in presence of polar liquids. 3,296,172, 1-3-67, Cl. 260—29.6.

Functional Container Corp. (N.A.): *See*—
Ogle, Robert W. 3,303,846.

Fundamental Research Co.: *See*—
Padgett, Weldon M., II. 3,309,402.
Santora, Frank. 3,298,689.

Funderburk, William J.: *See*—
Felton, Joseph B., Jr., Turner, Duncan, Funderburk, and Bart. 3,311,033.
Felton, Joseph B., Jr., Turner, Duncan, Funderburk, and Bart. 3,322,318.

Funfer, Ewald, and B. Kronast, to Institut fur Plasmaphysik Gesellschaft mit beschrankter Haftung. Short duration neutron pulse generating system. 3,296,442, 1-3-67, Cl. 250—84.5.

Funfstuck, Horst, to Statham Instruments, Inc. Apparatus for producing a direct-current voltage proportional to but different from another direct-current voltage. 3,334,312, 8-1-67, Cl. 331—113.

Funiciello, Orazio. Four stroke high R.P.M. internal combustion engine for facing purposes. 3,334,618, 8-8-67, Cl. 123—75.

Funk, Donald J., to Reynolds Metals Co. Method of producing wrought structure. 3,340,716, 9-12-67, Cl. 72—364.

Funk, Edw. J., & Sons Inc.: *See*—
Funk, William E., and Lehman. 3,317,088.

Funk, Elmer, ½ to E. A. and H. A. Funk. Irrigation pipe propelling apparatus. 3,318,531, 5-9-67, Cl. 239—212.

Funk, Elmer A.: *See*—
Funk, Elmer. 3,318,531.

Funk, Harold A.: *See*—
Funk, Elmer. 3,318,531.

Funk, Howard L.: *See*—
Hopner, Emil, Funk, and Critchlow. 3,308,431.

Funk, Robert A., and J. Jonakin, to Combustion Engineering, Inc. Chemical recovery unit. 3,304,919, 2-21-67, Cl. 122—7.

Funk, Welker W., to Deere & Co. Sprayer having adjustable long and short vanes in longitudinal alignment. 3,315,894, 4-25-67, Cl. 239—78.

Funk, William E., and I. H. Lehman, to Edw. J. Funk & Sons Inc. Fertilizer applicator. 3,317,088, 5-2-67, Cl. 222—178.

Funk, William E., and I. H. Lehman. Slurry slinging apparatus for treating soil. 3,351,287, 11-7-67, Cl. 239—161.

Funk, William H.: *See*—
McGlynn, James J., Ma, and Funk. 3,301,661.

Funke, Charles B., J. E. Kleboe, and M. E. Runyan, to R. R. Donnelley & Sons Co. Linecasting control system. 3,300,-035, 1-24-67, Cl. 199—11.

Funke, Ludwig F., to Whirlpool Corp. Compressor lubrication. 3,317,123, 5-2-67, Cl. 230—207.

Funke, Richard A., to Allen-Bradley Co. Reed switch having large current carrying capacity. 3,317,869, 5-2-67, Cl. 335—154.

Funke, Richard A., to Allen-Bradley Co. Reed switch having an atmosphere to prevent sticking of the pole pieces therein. 3,356,974, 12-5-67, Cl. 335—154.

Funkhouser, Garland B., to Reynolds Metals Co. Package construction and method of making the same or the like. 3,347,365, 10-17-67, Cl. 206—65.

Fuqua, Lloyd T. to General Motors Corp. Mirror support. 3,313,077, 4-11-67, Cl. 52—615.

Fuqua, Lloyd T., to General Motors Corp. Direction signal actuating mechanism. 3,321,994, 5-30-67, Cl. 74—519.

Fuqua, Lloyd T., to General Motors Corp. Direction signal switch including unitary flexible contacts. 3,322,911, 5-30-67, Cl. 200—61.34.

Furedy, Frank, deceased; by C. Wideen-Furedy, heir. Pipe. 3,308,834, 3-14-67, Cl. 131—196.

Furesz, Istvan: *See*—
Bickel, Hanz, Furesz, Gallo, Kradolfer, Kump, and Sensl. 3,338,888.

Furey, Michael J., and H. J. Schugar, to Esso Research and Engineering Co. Reaction products of polyamines and polybasic acid esters as antiscuff additives. 3,321,404, 5-23-67, Cl. 252—51.5.

Furgerson, William T., to United States of America Atomic Energy. Nuclear reactor core assembly. 3,305,449, 2-21-67, Cl. 176—50.

Furkert, Herbert, and H. Muhlenbein, to Chemiebau Dr. A. Zieren G.m.b.H. Process for recovering sulfur dioxide and ammonia from aqueous scrubbing solution obtained from ammonia scrubbing of gases containing sulfur oxides. 3,321,275, 5-23-67, Cl. 23—178.

Furkert, Herbert, and H. Rohl, to Chemische Werke Huls Aktiengesellschaft and Chemiebau Dr. A. Zieren G.m.b.H. Process for production of sulfur dioxide containing gases from waste products containing ammonium salts of sulfur acids. 3,359,069, 12-19-67, Cl. 23—178.

Furlong, Jack A.: *See*—
Zebarth, Ralph S., and Furlong. 3,335,788.

Furlong, John J. Self-feeding paint roller. 3,320,630, 5-23-67, Cl. 15—548.

Furlong, Louis E.: *See*—
Perkins, Michael B., and Furlong. 3,355,296.

Furlow, Dale B., to Black, Sivalls & Bryson, Inc. Float switch. 3,322,917, 5-30-67, Cl. 200—84.

Furman, Irwin L., and H. L. Stahle, to General Precision, Inc. Flag storage system. 3,327,294, 6-20-67, Cl. 340—172.5.

Furnas Electric Co.: *See*—
McGary, Robert L. 3,319,036.
McGary, Robert L. 3,331,039.
Mouis, Louis. 3,315,190.

Furnas, Vincent E., Jr.: *See*—
Woosley, William P., Connor, and Furnas. 3,340,566.

Furness, Alan G.: *See*—
Ayers, Peter, and Furness. 3,333,949.

Furness, Raymond F. Electrically heated heat storage apparatus. 3,356,828, 12-5-67, Cl. 219—365.

Furness, Stanley W., and L. E. Hard. Recording devices. 3,346,-180, 10-10-67, Cl. 235—74.

Furnier- und Sperrholzwerk J. F. Werz, Jr., K.G., Werzalit-Pressholzwerk: *See*—
Haas, Herbert, Munk, and Weinberg. 3,354,248.
Munk, Edmund. 3,299,595.

Furrer, Ferdinand: *See*—
Morawe, Hans Georg, Rueckert, and Furrer. 3,305,306.

Furrer, Jack F.: *See*—
Durand, Philip E., and Furrer. 3,323,684.

Furrer, Jack F., G. E. Murray, and C. N. Gardner, to United States of America, Army. Foam plastic shelter. 3,357,142, 12-12-67, Cl. 52—2.

Furrer, Josef. Roof or wall covering. 3,303,625, 2-14-67, Cl. 52—520.

Furrow, Clarence L., to Phillips Petroleum Co. Photochemical production of organic sulfonates. 3,336,210, 8-15-67, Cl. 204—162.

Furrow, Clarence L., to Phillips Petroleum Co. Production of alkyl sulfonate. 3,356,717, 12-5-67, Cl. 260—513.

Furrow, Clarence L., C. E. Stoops, and J. E. Mahan, to Phillips Petroleum Co. Photochemical process for producing alkyl sulfonates. 3,337,437, 8-22-67, Cl. 204—162.

Furrow, Clarence L., and C. E. Stoops, to Phillips Petroleum Co. Photochemical production of hydrocarbylsulfonates. 3,342,714, 9-19-67, Cl. 204—162.

Furry, Robert D.: *See*—
Grandinetti, Attilio, Burns, and Furry. 3,338,157.

Furst, Andor: *See*—
Becher, Elisabeth, Els, Furst, Gross, and Reusser. 3,342,-694.
Boller, Arthur, Furst, and Herzog. 3,309,386.

Furst, Andor, and E. G. Herzog, to Hoffmann-La Roche, Inc. 19-lower alkyl androstanes and pregnanes. 3,309,387, 3-14-67, Cl. 260—397.5.

Furst, Stefan, to W. Reiners. Yarn winding machine. 3,301,-496, 1-31-67, Cl. 242—37.

Furst, Stefan, to W. Reiners. Automatic yarn-package winding machine with take-up spool exchanging device. 3,307,-794, 3-7-67, Cl. 242—35.5.

Furst, Stefan, to W. Reiners. Method and device for joining two oppositely directed yarn ends by a weaver's knot. 3,309,124, 3-14-67, Cl. 289—1.5.

Furst, Stefan, to W. Reiners. Yarn-package winding machine. 3,311,311, 3-28-67, Cl. 242—18.

Furst, Stefan, to W. Reiners. Method and device for drawing warp threads from a creel to a warper. 3,317,979, 5-9-67, Cl. 28—32.

Furst, Stefan, to Walter Reiners. Apparatus for seizing the yarn ends of spinning cops or similar yarn coils. 3,352,505, 11-14-67, Cl. 242—35.6.

Furst, Stefan, to W. Reiners. Automatic yarn-package winding machine. 3,356,306, 12-5-67, Cl. 242—35.5.

Furtado, Arthur, I. Rios, Jr., and W. R. Wisecarver, said Wisecarver assignor, to said Furtado and Rios, (d.b.a.) ABC Frame & Pallet Co. Frame corner rounding apparatus. 3,333,614, 8-1-67, Cl. 144—141.

Furth, Benedictus, to Honeywell G.m.b.H. Spark ignitor loading and releasing apparatus. 3,307,053, 2-28-67, Cl. 310—8.

Furtner, Vinibalda: *See*—
Vassel, Bruno, Furtner, and Feige. 3,300,330.

Furuhata, Yoshio: *See*—
Abe, Zenmon Takami Matsuura, and Furuhata. 3,321,-696.

Furui, Shungo, 50% to G. Thunberg. Plural fluorescent lamp starting circuit using an unignited lamp as ballast. 3,315,-123,4-18-67, Cl. 315—100.

Furui, Takeo: *See*—
Ishimitsu, Akitoshi, Furui, and Sugahara. 3,332,862.

Furukada, Yozo, T. Satomi, H. Hariu, and S. Takei to Kabushiki Kaisha Ricoh. Photosensitive system for taking out desired portions of records on microfilm. 3,299,272, 1-17-67, Cl. 250—219

Furukawa Casting Co. Ltd.: *See*—
Kanno, Tomonobu. 3,295,272.

Furukawa, Eiji, to Daido Yusoki Kabushiki Kaisha, and Hitachi Zosen Kabushiki Kaisha. Apparatus for the sidewise displacement of wheeled vehicles. 3,356,038, 12-5-67, Cl. 104—35.

Furukawa Electric Co. Ltd., The: *See*—
Takahashi, Sakae, Nishimura, and Inui. 3,310,522.
Umewaka, Toshio, Kachi, Okubo, and Hirano. 3,300,-843.

Furukawa, Hideyuki: *See*—
Shiga, Akio, and Furukawa. 3,342,711.

Furukawa, Junji, T. Saegusa, and H. Imai, to Zaidan Hojin Nihon Kagaku Seni Kenkyusho. Polymerization of tetrahydrofuran. 3,314,898, 4-18-67, Cl. 260—2.

Furukawa, Masaaki: *See*—
Muta, Akinori, Furukawa, and Koyama. 3,355,527.

Furukawa, Mitsuru: *See*—
Ueda, Takeo, Toyoshima, and Furukawa. 3,350,398.

Furukawa, Tetsuya, Y. Nitta, and N. Kiyokuni, to Fuji Denki Seizo Kabushiki Kaisha. Gas blast circuit breaker with electromagnetic contact actuating means. 3,315,056, 4-18-67, Cl. 200—148.

Furukawa, Tomozo, and N. Wakayama, to Nihon Genshuryoku Kenkyu Sho. Apparatus for suppressing the appearance of transient responses or spikes. 3,307,044, 2-28-67, Cl. 307—88.5.

Furukawa, Yuichiro. Bearing for impeller shaft. 3,352,610, 11-14-67, Cl. 308—122.

Furusawa, Akira: *See*—
Tanaka, Yukio, Furusawa, and Isobe. 3,332,809.

Furuseth, Dean H. Vehicle mounted hole driller. 3,327,789, 6-27-67, Cl. 173—38.

Furuta, Michael W.: *See*—
Glass, Marvin I., Janiszewski, and Furuta. 3,347,548.
Glass, Marvin I., Stan, Ancevicius, and Furuta. 3,339,921.

Furuya, Iwao. Clothes packing bag and carrier. 3,295,644, 1-3-67, Cl. 190—43.

Fuscoe, John M.: *See*—
Gregory, John W., Fetheroff, and Fuscoe. 3,300,341.

Fuse, Goro: *See*—
Nishimoto, Koichi, Fuse, and Nakanishi. 3,305,442.

Fuse Indicator Corp.: *See*—
Linton, William C. 3,304,391.

Fuseller, Alfred G., to Byron Jackson, Inc. Tool for pulling a pin from a pipe protector. 3,313,019, 4-11-67, Cl. 29—252.

Fuss, Peter S., to Bell Telephone Laboratories, Inc. High speed split channel time compressor. 3,355,554, 11-28-67, Cl. 179—15.55.

Fussell, Lewis, Jr.: *See*—
Babb, James W., Fussell, Mims, and Grier. 3,307,005.

Fussenhauser, Herbert, and H. Reim, to Feldmuehle Aktiengesellschaft. Cutting tool holder. 3,331,116, 7-18-67, Cl. 29—96.

Fussgänger, Rudolf: *See*—
Schorr, Manfred, and Fussganger. 3,342,829.
Schorr, Manfred, Fussgänger, Bauer, and Nesemann. 3,344,155.
Schorr, Manfred, Fussgänger, Nesemann, and Bauer. 3,322,768.

Fussnegger, Wolfgang: *See*—
Strien, Werner, Resag, Fussnegger, Schmerreim, and Von Sass. 3,315,298.

Futaki, Hisao, and K. Ikegami, to Kabushiki Kaisha Hitachi Seisakushio. Critical temperature thermistor relaxation oscillator. 3,328,722, 6-27-67, Cl. 331—71.

Futamata, Masayuki, to Kabushiki Kaisha Komatsu Seisakusho. Hydraulically operated power system. 3,303,647, 2-14-67, Cl. 60—53.

Futamata, Masayuki, to Kabushiki Kaisha Komatsu Seisakusho. Combined speed control and steering device for vehicles. 3,323,607, 6-6-67, Cl. 180—6.48.

Futami, Atsushi, and K. Hayashi, to Teijin Ltd. Method of reducing the viscosity of a solution of cellulose derivative. 3,347,689, 10-17-67, Cl. 106—178.

Futami, Kakuo: *See*—
Oshima, Shintaro, Futami, Fukui, Kamibayashi, and Komazawa. 3,315,086.

Futch, James M., Jr.: *See*—
Freuler, Fred H., and Futch. 3,359,156.

Futer, Rudolph E. Method and means for changing the temperature of granular material by gas jets. 3,304,619, 2-21-67, Cl. 34—10.

Futera, Miroslav: *See*—
Beran, Jaromir, Misarek, and Futera. 3,349,997.

Futerfas, Jack, R. F. Salava, and J. E. Stout, to United States of America, Army. Digital communication error measurements including shift registers with identical feedback connections. 3,315,228, 4-18-67, Cl. 340—146.1.

Futterer, Bodo, and W. Messinger, to Ronson Corp. Cutting head for a dry shaver. 3,319,333, 5-16-67, Cl. 30—43.92.

Futterknecht, Rudolf, and W. Neumann, said Neumann assor. to Westo Gesellschaft mit beschrankter Haftung Fabrik fuer Chemisch-Technische Erzeugnisse. Tritium-activated luminous pigments. 3,325,420, 6-13-67, Cl. 252—301.1.

Futterman, Irving. Container. 3,317,112, 5-2-67, Cl. 229—19.

Futty, Robert C., to Irl Daffin Associates Inc. System and means for selectively mixing concrete and incorporating additives therein. 3,336,011, 8-15-67, Cl. 259—148.

Futty, Robert C., and H. M. Zimmerman, to Irl Daffin Associates, Inc. Mixing method and mixing trough construction. 3,339,898, 9-5-67, Cl. 259—148.

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Fuzzell, Joe E., to Caterpillar Tractor Co. Conduit with enlarged end and method of forming same. 3,318,334, 5-9-67, Cl. 138—109.

Fyanes, Robert V. Golf swing training apparatus. 3,325,168, 6-13-67, Cl. 173—186.

Fyffe, William E., to Sperry Rand Corp. Carrell units. 3,339,-502, 9-5-67, Cl. 108—64.

Fyler, Norman F., to Litton Precision Products, Inc. Method of making a glass sheet having a plurality of spaced wires. 3,305,334, 2-21-67, Cl. 65—42.

Fyler, Norman F., to Litton Precision Products, Inc. Cathode ray tube apparatus for recording and displaying color images. 3,305,872, 2-21-67, Cl. 346—74.

Fyler, Norman F., to Litton Precision Products, Inc. Image forming apparatus. 3,325,777, 6-13-67, Cl. 340—3.

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Fyr Teck Products, Inc.: *See*—
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G. D. Societe in Accomandita Semplice di Enzo Sergnoli e Ariosto Seragnoli: *See*—
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G.K.N. Screws & Fasteners Ltd.: *See*—
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GTC Corp.: *See*—
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Croce, Louis J., Bajars, and Gabliks. 3,303,237.
Croce, Louis J., Bajars, and Gabliks. 3,342,890.
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Gabriel, Martin G., to Ford Motor Co. Hydrodynamic transfer drive arrangement. 3,312,060, 4-4-67, Cl. 60—54.
Gabriel, Ralph P., and R. I. Kinross, to Communications Patents Ltd. Wired broadcasting systems and communication cables therefor. 3,350,647, 10-31-67, Cl. 325—308.
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Gabrielson, Reidar G., and L. R. Smith, to Motorola, Inc. Control system with time reference for data acquisition. 3,350,687, 10-31-67, Cl. 340—163.
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Gadbut, John: *See*—
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Gaddis, John H., ½ to L. J. Daniel. Pipe and rod tool. 3,348,-871, 10-24-67, Cl. 294—92.
Gadekar, Shreekrishana M., and E. Cohen, to American Cyanamid Co. Substituted isoxazoles and methods of preparing the same. 3,309,368, 3-14-67, Cl. 260—256.4.
Gaenge, Fritz, to Siemens & Halske Aktiengesellschaft. Method and device for producing electrical thin-foil capacitors. 3,306,798, 2-28-67, Cl. 156—192.
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Gaertner, Van R., to Monsanto Co. Process of sizing cellulosic fibers with gamma-lactones and fibrous product thereof. 3,345,252, 10-3-67, Cl. 162—158.
Gaeumann, Ernst, and E. Vischer, to Ciba Corp. Process for producing coprogen and desferricoprogen. 3,297,526, 1-10-67, Cl. 167—65.
Gaeumann, Ernst (deceased, by T. Gaeumann, legal representative), V. Prelog, and E. Vischer, to Ciba Corp. Ferrichrysin, desferrichrysin, and derivatives thereof. 3,342,-795, 9-19-67, Cl. 260—112.5.
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Gaffard, Jean P., to Compagnie de Saint-Gobain. Process and apparatus for the detection of flaws in transparent sheets. 3,338,130, 8-29-67, Cl. 88—14.
Gage, Arthur F., to Rockwell-Standard Corp. Brake shoe lining with incorporated heating element. 3,348,641, 10-24-67, Cl. 188—250.
Gage, Leon S., and R. J. Greylock, to Western Electric Co., Inc. Apparatus for forming harness type cables. 3,340,904, 9-12-67, Cl. 140—71.
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Gager, Robert M., to Dunlee Corp. Sealed window for X-ray generator with shield for seal. 3,334,256, 8-1-67, Cl. 313—59.
Gageur, Fritz, and H. Mende, to Lindauer Dornier Gesellschaft m.b.H. Apparatus for laterally stretching lengths of thermoplastic synthetic material. 3,303,528, 2-14-67, Cl. 18—1.
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Gagliano, Louis J., and E. L. Moore, to Hercules Inc. Process for the preparation of cadmium yellow pigments. 3,341,346, 9-12-67, Cl. 106—293.
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Gagliardi, Domenick D., to Colgate-Palmolive Co. Fiber-reactive fluoroalkyl derivatives of aminoaldehyde compounds and textiles "soil proofed" therewith. 3,296,264, 1-3-67, Cl. 260—249.6.
Gagliardi, Domenick D. Heat and light stable solid polyolefin article and process of making same. 3,298,861, 1-17-67. Cl. 117—138.8.
Gagliardi, Domenick D. Processes for treatment of preformed articles of olefin polymers and resulting products. 3,314,-743, 4-18-67, Cl. 8—31.
Gagliardi, Domenick D., to Colgate-Palmolive Co. Textiles reacted with methylol perfluoroalkanamides. 3,322,490, 5-30-67, Cl. 8—116.3.

Gagliardi, Domenick D., to Colgate-Palmolive Co. Oil repellent compositions, methods for making same and textiles treated therewith. 3,331,701, 7-18-67, Cl. 117—121.
Gagliardi, Domenick D., to Colgate-Palmolive Co. Silicate and titanate orthoesters and soil-proofed textile materials. 3,342,630, 9-19-67, Cl. 117—139.5.
Gagliardi, Domenick D., to Colgate-Palmolive Co. Soil proofing with quaternary ammonium derivatives of highly fluorinated carboxylic acids. 3,350,218, 10-31-67, Cl. 117—76.
Gagliardi, Domenick D., to Colgate-Palmolive Co. Hydroxymethylated, fluoroacylated aminohydroxy aromatic compounds. 3,352,625, 11-14-67, Cl. 8—116.2.
Gagliardi, Domenick D. Processes for ornamenting by localized coloring of preformed continuous webs formed of solid polyolefins. 3,359,059, 12-19-67, Cl. 8—72.
Gagliardi, Domenick D., and F. B. Shippee, to Scientific Chemicals Inc. Metal containing compositions, processes and products. 3,300,336, 1-24-67, Cl. 117—38.5.
Gagliardi, George N., to American Cyanamid Co. Process for the preparation of O,O-dialkyl-O-2-pyrazinyl phosphorothioates. 3,340,262, 9-5-67, Cl. 260—250.
Gagnaux, Pierre: *See*—
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Renz, Jany, Bourquin, Winkler, Gagnaux, Guldimann, and Ruesch. 3,349,087.
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Gagne Associates, Inc.: *See*—
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Gagne, Donald J.: *See*—
Braund, Reed J., Gagne, and Matthews. 3,327,064.
Gagne, Oscar J. Structure for aiding compass compensation. 3,320,790, 5-23-67, Cl. 73—1.
Gagne, Paul. Ball projector and catcher. 3,315,964, 4-25-67, Cl. 273—97.
Gagnebin, Gustave, and G. Costa, to Paullard S.A. Assisted control device for an operation in a typewriter. 3,327,831, 6-27-67, Cl. 197—176.
Gagneux, Andre R.: *See*—
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Gagnon, James E., and M. J. Lawrence. Drip collecting means for barbeque. 3,296,957, 1-10-67, Cl. 99—444.
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Gahle, Walter, to Firma Rheinmetall G.m.b.H. Blank shell for guns. 3,295,448, 1-3-67, Cl. 102—39.
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Gahmberg, Axel O. W. Method and apparatus for removing water from a pulp suspension and particularly in forming a paper web. 3,316,142, 4-25-67, Cl. 162—202.
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Hermann, Paul C. 3,327,442.
Gainer, Gordon C., and R. M. Luck, to Westinghouse Electric Corp. Photoflash lamp and method of sealing same. 3,332,-257, 7-25-67, Cl. 67—31.
Gainer, Gordon C., and I. R. Axelrad, to Westinghouse Electric Corp. Arc and tracking resistant insulation. 3,339,013, 8-29-67, Cl. 174—137.
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Gaines, Stanley L., to General Electric Co. Shoe polisher. 3,307,211, 3-7-67, Cl. 15—4.
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Gaiser, William J., and D. J. Hohbach, to Pacific Adhesives Co., Inc. Process of absorbing gaseous carbon dioxide into aqueous solutions of inorganic alkali. 3,304,151, 2-14-67, Cl. 23—2.
Gaisman, Henry J. Cigarette construction or the like. 3,324,-861, 6-13-67, Cl. 131—10.3.
Gaisser, Gladys F. Protective face mask. 3,310,812, 3-28-67, Cl. 2—9.
Gaither, Alva, to H. K. Porter Co., Inc. Drip molding trim. 3,295,268, 1-3-67, Cl. 52—97.
Gaitten, Walden M., to Soderhamn Machine Mfg. Co. Apparatus for forming particle boards. 3,299,478, 1-24-67, Cl. 19—155.
Gaj, Bernard J., and L. W. Blanken, to Esso Research and Engineering Co. Polymer-asphalt mulch formulations. 3,323,254, 6-6-67, Cl. 47—9.
Gajardo, Vincent H., to Cyprus Mines Corp. Fast fire tunnel kiln. 3,314,666, 4-18-67, Cl. 263—28.
Gajdos, Leslie B., to The B. F. Goodrich Co. Resilient prosthetic foot made from elastic polymers of different hardness. 3,335,428, 8-15-67, Cl. 3—7.
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Gal, George: *See*—
Jones, Robert E., and Gal. 3,299,082.
Sletzinger, Meyer, Gal, and Glamkowski. 3,322,787.
Gal, George, and M. Sletzinger, to Merck & Co., Inc. Processes and intermediates for preparing certain 2-thiazolylbenzimidazoles. 3,299,080, 1-17-67, Cl. 260—302.
Gal, George, and M. Sletzinger, to Merck & Co. Process for preparing α-(3-indolyl) lower aliphatic acids. 3,320,280, 5-16-67, Cl. 260—326.12.
Galabert, Pierre, and M. Pillon, to Compagnie de Saint-Gobain. Apparatus and method for cutting glass. 3,352,015, 11-14-67. Cl. 33—32.
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Galantay, Eugene, to Sandoz, Inc. Dibenzoazabicycloalkanes. 3,310,565, 3-21-67, Cl. 260—288.
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Galbraith, Floyd M., Jr., to Eastman Kodak Co. Intermittent drive mechanism. 3,335,301, 8-8-67, Cl. 310—23.
Gale, Alfred J., to High Voltage Engineering Corp. Ion accelerator. Re. 26,254, 8-29-67, Cl. 250—84.5.
Gale, George D., to Allis-Chalmers Mfg. Co. Two-phase contactor. 3,333,337, 11-21-67, Cl. 55—232.
Gale, John A., and W. A. Eastman. Sheet press device. 3,295,168, 1-3-67, Cl. 18—19.
Gale, Leo R.: *See*—
Remack, Alfred R., and Gale. 3,312,095.
Gale, Paul H., to Merck & Co., Inc. Coenzyme Q_{10} (H-10) and the corresponding 6-chromenol and 6-chromanol derivatives. 3,313,826, 4-11-67, Cl. 260—345.2.
Gale, Paul H., to Merck & Co., Inc. Preparation of coenzyme Q_{10} (H-10) from gibberella. 3,313,831, 4-11-67, Cl. 260—396.
Gale, Reginald L., and J. I. MacDonald, to The Markland Works Ltd. Stable lobster trap. 3,319,373, 5-16-67, Cl. 43—100.
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Gales, Donald M. Machine for zig-zag folds using releasably mounted folding plates. 3,328,025, 6-27-67, Cl. 270—39.
Galetzky, Hyman. Picks for musical instruments with improved grip including with improved tone. 3,319,505, 5-16-67, Cl. 84—322.
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Galey, William F.: *See*—
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Galey, William F., to Pittsburgh Plate Glass Co. Method of shifting glass on a molten metal bath. 3,356,478, 12-5-67, Cl. 65—99.
Galey, William F., to Pittsburgh Plate Glass Co. Method of controlling the thickness of float glass. 3,356,479, 12-5-67, Cl. 65—99.
Galey, William F., J. A. Gulotta, F. K. Umbel, to Pittsburgh Plate Glass Co. Length and area partitioning methods and apparatus. 3,300,629, 1-24-67, Cl. 235—185.
Galey, William F., and G. W. Misson, to Pittsburgh Plate Glass Co. Read-out apparatus for interrogating perforated tape. 3,316,391, 4-25-67, Cl. 235—61.11.
Galginaitis, Simeon V., to General Electric Co. Semiconductive alloy light source having improved optical transmissivity. 3,302,051, 1-31-67, Cl. 313—108.
Galginaitis, Simeon V., to General Electric Co. Semiconductive display device. 3,333,135, 7-25-67, Cl. 313—108.
Galgoczi, Bela: *See*—
Demeter, Laszlo, Galgoczi, Bozzay, and Zagyvai. 3,350,-302.
Galgoczy, John: *See*—
Winberg, Douglas F., and Galgoczy. 3,295,892.
Galiano, Francis R.: *See*—
Hill, Robert W., and Galiano. 3,329,738.
Galier, Vincent Q. Shuffleboard cue hanger. 3,343,684, 9-26-67, Cl. 211—89.
Galigher Co., The: *See*—
Anderson, Charles M. 3,327,851.
Galimberti, Paolo, V. Gerosa, M. M. Melandri, and A. Buttini, to Societá Italiana Prodotti Schering. N,N-diethyl-2-aminoethyl 2-substituted oxyisobutyrate. 3,344,168, 9-26-67, Cl. 260—468.

Gallin, Miles A., to Theratronic Corp. of America. Device for applying suction to the eye and method for treating the eye by using such device. 3,308,810, 3-14-67, Cl. 128—2.

Galinke, Joachim: *See*—
Engelskirchen, Konrad, and Galinke. 3,326,890.
Engelskirchen, Konrad, and Galinke. 3,347,847.
Engelskirchen, Konrad, and Galinke. 3,350,386.
Tauber, Gunter, Dohr, and Galinke. 3,311,576.

Galinke, Joachim, G. Klement, and M. Dohr, to Henkel & Cie. G.m.b.H. Process for the hardening of epoxide resins. 3,328,-319, 6-27-67, Cl. 260—2.

Gallnos, Evangilos G.: *See*—
Le Blanc, Edward V., and Gallnos. 3,302,798.

Gallon, Jeffrey, Mfg. Co.: *See*—
Bennett, John E., McMahon, and Munger. 3,317,022.
Holcombe, Robert C. 3,356,173.
Kilbourne, James. 3,318,638.
Swenson, Walter R. 3,313,422.

Galls, Alex J., and S. A. Muldoven, to Galls Mfg. Co. Mining machine having cutting head with rotated and oribited cutters. 3,305,271, 2-21-67, Cl. 299—57.

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Galls, Alex J., and Muldoven. 3,305,271.
Pyles, Harley G. 3,306,386.
Pyles, Harley G. 3,319,727.

Galitzki, Bernard I., and R. C. Burbank, said Burbank assor.; to Jantzen Inc. Method of producing fabric laminated articles. 3,320,346, 5-16-67, Cl. 264—229.

Galjan, Boris A.: *See*—
Paton, Boris E., Sakharnov, Lebedev, Kuchuk-Jatsenko and Galjan. 3,341,684.

Gall, Kurt. Apparatus for processing photographic materials. 3,304,850, 2-21-67, Cl. 95—93.

Gall, Richard B., to Camelec Ltd. Battery terminal clump 3,356,988, 12-5-67, Cl. 339—230.

Gall, Robert W., to Kaiser Gypsum Co., Inc. Method of grinding and introducing a set-control agent into a gypsum slurry. 3,314,613, 4-18-67, Cl. 241—19.

Gall, Robert W., to Kaiser Gypsum Co., Inc. Apparatus for mixing. 3,337,191, 8-22-67, Cl. 259—7.

Gall, Walter G., to E. I. du Pont de Nemours and Co. Solar infrared absorbers. 3,298,898, 1-17-67, Cl. 161—199.

Gallacher, Daniel, and T. W. McGill, to Ioco Ltd. Flexible heating elements. 3,359,524, 12-19-67, Cl. 338—212.

Gallagher, Bernard E., to Bailey Meter Co. Multi-zone furnace temperature and atmosphere control. 3,319,887, 5-16-67, Cl. 236—15.

Gallagher, Bernard J., and F. J. Callahan, Jr., to Nupro Co. Method of constructing a bellows valve. 3,295,191, 1-3-67, Cl. 29—157.1.

Gallagher, Cornelius A., to Servo Corp. of America. Directional relay. 3,359,417, 12-19-67, Cl. 246—249.

Gallagher, Dudley M.: *See*—
Bridgeford, Douglas L., and Gallagher. 3,336,144.

Gallagher, George A., to E. I. du Pont de Nemours and Co. Copolymer of an epoxidized olefin and a non-conjugated diene. 3,330,794, 7-11-67, Cl. 260—29.3.

Gallagher, Gerard A., to Weston Instruments, Inc. Adjustable wire-wound component. 3,360,759, 12-26-67, Cl. 338—195.

Gallagher, Gerard J., to Gibson Readymix Concrete Ltd. Mixing plant. 3,306,590, 2-28-67, Cl. 259—161.

Gallagher, Hayden E.: *See*—
Webb, James E. 3,328,624.

Gallagher, James J., to Standard Pressed Steel Co. Workpiece transfer device with workpiece head gripping jaws. 3,319,826, 5-16-67, Cl. 221—210.

Gallagher, James P., to United States of America, Atomic Energy Commission. Line cutter. 3,335,493, 8-15-67, Cl. 30—180.

Gallagher, Joan L.: *See*—
Hardy, William B., Gallagher, and Adams. 3,325,527.

Gallagher, John B., to Haveg Industries, Inc. Carbon cloth annealing process. 3,304,148, 2-14-67, Cl. 8—140.

Gallagher, John E., O. N. Crider, and B. McCulloch, to Slick Industrial Co. Window shades and shade rollers. 3,348,604, 10-24-67, Cl. 160—313.

Gallagher, John P. Surfboard. 3,317,937, 5-9-67, Cl. 9—310.

Gallagher, John P. Therapeutic dressing material and method of using the same. 3,320,213, 6-20-67, Cl. 128—156.

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Azett, Albert H., and Gallagher. 3,345,917.
Dyer, Richard F., and Gallagher. 3,333,315.
Dyer, Richard F., and Gallagher. 3,341,912.
Pannill, James K., Jr., and Gallagher. 3,340,576.

Gallagher, Paul, to Eastman Kodak Co. Apparatus for making filament tobacco smoke filters. 3,320,110, 5-16-67, Cl. 156—438.

Gallagher, Paul, to Eastman Kodak Co. Method and apparatus for forming rod-shaped fibrous elements. 3,323,961, 6-6-67, Cl. 156—180.

Gallagher, Roy S., to R. W. Sheppard. Illuminated sign apparatus. 3,309,806, 3-21-67, Cl. 40—130.

Gallagher, Thomas P., to The Fuller Merriam Co. Process for impregnating porous bodies with a solid fusible substance. 3,341,355, 9-12-67, Cl. 117—113.

Gallagher, Warren L., and R. B. Gunyan. Wire stripper. 3,311,001, 3-28-67, Cl. 81—9.5.

Gallaher, Farrell R. Collapsible sled. 3,319,972, 5-16-67, Cl. 280—18.

Gallaher, Herman C. and J. J., to Positive Flight Control, Inc. Control position indicator for use with gyro instruments or the like. 3,334,844, 8-8-67, Cl. 244—75.

Gallaher, John J.: *See*—
Gallaher, Herman C. and J. J. 3,334,844.

Gallaher, Lee E., and R. J. Redner, to Bell Telephone Laboratories, Inc. Current regulator with A.C. and D.C. feedback. 3,350,628, 10-31-67, Cl. 323—4.

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Galbant, Donald A. Atomizer. 3,332,623, 7-25-67, Cl. 239—105.

Gallatin, Victor: *See*—
Beebe, Austin H., Jr., and Gallatin. 3,350,773.

Gallaugher, Major L.: *See*—
Canterino, Peter J., and Gallaugher. 3,316,231.

Gallaway, Roy L., and A. L. Parrack, to Texaco Inc. Crystal pressure sensitive geophones for use in soft earth. 3,336,-573, 8-15-67, Cl. 340—17.

Galler, Sidney. Anti-fouling apparatus. 3,309,167, 3-14-67, Cl. 21—61.

Gallet, Georges, and C. Guenel, to Compangnie General d'Electricite. Method for manufacturing metal coated bands. 3,348,284, 10-24-67, Cl. 29—25.42.

Galley, Hollis T., and A. C. Rissberger, Jr., to Eastman Kodak Co. Cartridge dispenser. 3,315,910, 4-25-67, Cl. 242—71.1.

Gallez, Pierre, to Glaverbel. Heater panel. 3,313,920, 4-11-67, Cl. 219—522.

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Gallien, Beunle L., to Sperry Rand Corp. Circuit for indicating readable, unreadable or missing characters. 3,305,-833, 2-21-67, Cl. 340—146.3.

Gallien, Beunle L., to Sperry Rand Corp. Character reader. 3,320,588, 5-16-67, Cl. 340—146.3.

Gallina, Harold. Cueing apparatus for record tape. 3,327,066, 6-20-67, Cl. 179—100.2.

Gallinella, Enzo: *See*—
Bricchta, Corrado, Nenz, Ribaldone, Borsotti, and Gallinella. 3,359,314.

Gallo, E. & J., Winery: *See*—
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Gallo, Glan G.: *See*—
Bickel, Hanz, Furesz, Gallo, Kradolfer, Kump, and Sensi. 3,338,888.

Gallo, Glan G., P. Sensi, and C. R. Pasqualucci, to Lepetit S.p.A. Antifungal compounds. 3,303,202, 2-7-67, Cl. 260—340.2.

Gallo, John F. Glass washing machine. 3,315,294, 4-25-67, Cl. 15—76.

Gallo, John, Sr. Double edge hole saw and mandrel. 3,360,025, 12-26-67, Cl. 145—130.

Gallo, Joseph. Stephanotis flower holder. 3,321,866, 5-30-67, Cl. 47—55.

Gallo, Joseph S., to Llon Ribbon Co., Inc. Flower chain holder. 3,309,258, 3-14-67, Cl. 161—26.

Gallo, Joseph S. Tote box. 3,331,547, 7-18-67, Cl. 229—23.

Galloway, Frederick M., G. J. Rittenhouse, R. H. Sinnamon, to H. K. Porter Co., Inc. High pressure hose connector. 3,310,323, 3-21-67, Cl. 285—249.

Galloway, Reginald J.: *See*—
Jervis, Thomas W. V., and Galloway. 3,354,667.

Galloway, Robert K., to FMC Corp. Carton handling machine. 3,295,294, 1-3-67, Cl. 53—252.

Galloway, Robert K., to American Can Co. Packaging machine. 3,306,004, 2-28-67, Cl. 53—284.

Galloway, William H. Pole base assembly. 3,311,333, 3-28-67, Cl. 248—44.

Galloway, William H. Coupling device for tubular members. 3,342,511, 9-19-67, Cl. 285—177.

Gallup, Lyun W.: *See*—
Slattery, Leo F., Gallup, and Schoenherr. 3,299,363.

Gallup, Norman G., to Brown Steel Tank Co. Fill cap fastening means. 3,344,947, 10-3-67, Cl. 220—57.

Gallup, Rolland, to United States of America, Navy. Light bomb. 3,353,014, 11-14-67, Cl. 240—1.3.

Gallup, William A.: *See*—
Semancik, John R., and Gallup. 3,325,344.

Galluzzi, Nicholas P., to Control Data Corp. Silicon controlled rectifier arrangement for improved short-circuit protection. 3,359,434, 12-19-67, Cl. 307—88.5.

Gally, Henry R., to E. J. Lavino and Co. Apparatus and method for manufacturing brick. 3,309,750, 3-21-67, Cl. 25—45.

Gally, John, Jr., and W. G. Kahl, Jr. Photoelectric system for detecting objects in a zone including vibrating light source. 3,335,285, 8-8-67, Cl. 250—221.

Galman, Herbert. Measuring system standard utilizing amplifier with rectifier in negative feedback path to compensate rectifier forward voltage drop. 3,311,826, 3-28-67, Cl. 324—123.

Galmiche, Philippe, to Office National d'Etudes et de Recherches Aerospatiales (par abbreviation O.N.E.R.A.). Heat treatment of metals. 3,325,313, 6-13-67, Cl. 148—16.

Galorneau, Louis C. Detachable drill tip and coupling means. 3,304,816, 2-21-67, Cl. 77—68.

Galper, Milton J.: *See*—
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Galvagni, John, to Transistor Electronics, Inc. Miniature capacitor with electrodes and dielectric sealed. 3,356,911, 12-5-67, Cl. 317—230.

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Galvin, Paul D., to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Alloys containing rare earth metals. 3,295,963, 1-3-67, Cl. 75—122.

Galvin, Thomas J., and F. A. Hughes, to Atlas Chemical Industries, Inc. Asphalt compositions. 3,347,690, 10-17-67, Cl. 106—273.

Galvin, Thomas M., to Interatate Fabrications, Inc. Food cabinet closure. 3,295,907, 1-3-67, Cl. 312—298.

Gamage, Russell W. Rotary external combustion engines. 3,310,043, 3-21-67, Cl. 123—12.

Gamba, Augusto, to The National Cash Register Co. Pattern recognition system utilizing optical device which examines pattern in series-parallel manner. 3,323,407, 6-6-67, Cl. 88—1.

Gambale, John C.: *See*—
Rockefeller, George D., Jr., and Gambale. 3,300,648.
Schmidt, Warren J., and Gambale. 3,331,989.

Gambale, John C., to Westinghouse Electric Corp. Static reactance relay. 3,312,865, 4-4-67, Cl. 317—27.

Gambale, John C., and W. J. Schmidt, to Westinghouse Electric Corp. Hall generator system useful as integrating meter, demand meter and inverse current relay. 3,343,084, 9-19-67, Cl. 324—103.

Gambell, James W.: *See*—
Michaels, Glenn O., and Gambell. 3,345,427.

Gamber, Wilburn. Concrete reinforcement frame and method. 3,324,611, 6-13-67, Cl. 52—91.

Gamberini, Goffredo, to American Machine & Foundry Co. Tobacco rod forming device. 3,297,040, 1-10-67, Cl. 131—84.

Gamberini, Goffredo, to American Machine & Foundry Co. Device for setting cigarettes in the same direction. 3,319,-764, 5-16-67, Cl. 198—33.

Gambet, Bernard P. E.: *See*—
Bauger, Louis J., Gambet, La Croix, and Negre. 3,295,-318.

Gambill, Charles C., to General Motors Corp. Half-wave voltage control system for heating loads. 3,299,346, 1-17-67, Cl. 323—22.

Gambill, Charles C., to General Motors Corp. Full wave voltage control systems for heating loads. 3,305,766, 2-21-67, Cl. 323—22.

Gambill, Charles C., to General Motors Corp. Light responsive semiconductor speed control. 3,328,662, 6-27-67, Cl. 318—313

Gambill, Charles C., and R. S. Gaugler, to General Motors Corp. Snap acting switch mechanism. 3,320,384, 5-16-67, Cl. 200—122.

Gambino, Richard J.: *See*—
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Gambino, Richard J., F. Holtzberg, and S. J. Methfessel, to International Business Machines Corp. Ferromagnetic compounds and method of preparation. 3,342,591, 9-19-67, Cl. 75—152.

Gamble, Anna C. Push and pull sounding toy for animals having paws. 3,315,640, 4-25-67, Cl. 119—29.

Gamble, Burton L.: *See*—
Dowling, Daniel J., and Gamble. 3,311,256.
Kocian, Ralph B., and Gamble. 3,344,904.

Gamble, Burton L., to Continental Can Co., Inc. Apparatus for shielding pail open tops while spraying body exteriors. 3,296,999, 1-10-67, Cl. 118—2.

Gamble, Howard C.: *See*—
Shaw, Henry W., and Gamble. 3,324,254.

Gamble, James J. Combined fishing rod holder and seat. 3,359,-928, 12-26-67, Cl. 108—50.

Gamble, James R., to Westinghouse Electric Corp. Porcelain casing bead construction. 3,358,073, 12-12-67, Cl. 174—137.

Gamble, Leon W., and T. Lane, to Esso Research and Engineering Co. Radiation sensitive apparatus and method for analyzing molecular weight distribution in polymeric material. 3,354,317, 11-21-67, Cl. 250—218.

Gamboni, Guido: *See*—
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Renz, Jany, Bourquin, Gamboni, and Schwarb. 3,358,019.

Games, Inc.: *See*—
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Games, Robert F., to Dana Corp. Spacer-expander for piston ring assembly. 3,300,224, 1-24-67, Cl. 277—139.

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Platzer, Pettr J., Anderson, and Selenski. 3,302,769.

Gamlen, George A.: *See*—
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Gamm, Paul B., to Jung Products, Inc. Wrist brace. 3,327,703, 6-27-67, Cl. 128—77.

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Gammel, Josef, to Siemens Aktiengesellschaft. Regulated transistor amplifier. 3,353,110, 11-14-67, Cl. 330—28.

Gammon, Jack: *See*—
Klein, Robert E., and Gammon. 3,348,101.

Gamon, Adam E. Chair construction. 3,335,434, 8-15-67, Cl. 5—332.

Gamoter S.A.: *See*—
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Gamundi, Reynold F., and H. Shindell, to Eaton Mfg. Co. Water conditioner. 3,342,335, 9-19-67, Cl. 210—117.

Gancarz, Walter F., and W. A. Marion, to The American Paper Products Co. Rotary endless chain printing machine. 3,348,478, 10-24-67, Cl. 101—91.

Gancy, Alan B., to Intermountain Research & Development Corp. Densification of soda ash by vapor hydration. 3,309,-171, 3-14-67, Cl. 23—63.

Gancy, Alan B., to FMC Corp. Dissolution of trona at elevated temperature and pressure. 3,328,130, 6-27-67, Cl. 23—312.

Gancy, Alan B., and P. M. Di Bello, to FMC Corp. Preparation of dense sodium carbonate and the product thereof. 3,333,918 8-1-67, Cl. 23—63.

Gander, Robert J., to Johnson & Johnson. Pressure-sprayable water-soluble alkyl-acrylate polymers. 3,305,510, 2-21-67, Cl. 260—33.2.

Gander, Robert J., to Johnson & Johnson. Pressure-sprayable water-soluble alkyl acrylate polymer solutions. 3,305,511, 2-21-67, Cl. 260—33.2.

Gander, Robert J., to Johnson & Johnson. Pressure-sprayable water-soluble alkyl acrylate polymer solutions. 3,305,512, 2-21-67, Cl. 260—33.2.

Gander, Robert J., to Johnson & Johnson. Pressure-sprayable water-soluble alkyl methacrylate polymer solutions. 3,305,-513, 2-21-67, Cl. 260—33.2.

Gander, Robert J., to Johnson & Johnson. Adhesive compositions. 3,321,451, 5-23-67, Cl. 260—79.3.

Gander, Robert J., to Johnson & Johnson. Sheet materials. 3,325,459, 6-13-67, Cl. 260—80.5.

Gander, Robert J., to Johnson & Johnson. Adhesive compositions comprising amine salts of acrylic polymers. 3,341,505, 9-12-67, Cl. 260—86.1.

Gander, Robert J., and H. P. Brown, to Johnson & Johnson and The B. F. Goodrich, Co. Surgical pressure-sensitive adhesive sheet with N-tert-butylacrylamide copolymer adhesive. 3,307,544, 3-7-67, Cl. 128—156.

Gander, Sally B.: *See*—
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Gandler, Bernard R.: *See*—
Brady, Richard L., and Gandler. 3,311,891.

Gandolfi, Carmelo: *See*—
De Ruggieri, Pietro, and Gandolfi. 3,313,808.
De Ruggieri, Pietro, Gandolfi, and Chiaramonti. 3,341,522.
De Ruggieri, Pietro, Gandolfi, and Guzzi. 3,305,545.
De Ruggieri, Pietro, Gandolfi, and Guzzi. 3,308,116.
De Ruggieri, Pietro, Gandolfi, and Guzzi. 3,313,807.
De Ruggieri, Pietro, Gandolfi, and Guzzi. 3,325,480.

Gandon, Louis, to Nobel-Bozel. Method of stiffening the corrugations of corrugated cardboards and the resultant product. 3,357,877, 12-12-67, Cl. 161—133.

Gandon, Louis: *See*—
Marcheguet, Henri G. L., and Gandon. 3,350,165.

Gandrud, Ebenhard S. Self-aligning bearing. 3,332,727, 7-25-67, Cl. 308—72.

Gandrud, Ebenhard S. Sprocket wheel. 3,350,950, 11-7-67, Cl. 74—243.

Gandrud, Ebenhard S. Attachment for row wheel for agricultural implements. 3,351,140, 11-7-67, Cl. 172—606.

Gandy, Christine M. Flatus bag and catheter. 3,308,824, 3-14-67, Cl. 128—275.

Gandy, James R.: *See*—
Beihl, Paul A., Gandy, and Loosle. 3,305,767.

Gang, Herman, to Monroe International, Inc. Rounding off means for calculating machines. 3,332,618, 7-25-67, Cl. 235—60.

Gang, Robert E., to Varian Associates. Negative temperature coefficient means for a magnet structure. 3,325,757, 6-13-67, Cl. 335—217.

Gange, Robert A., to Radio Corp. of America. Cryoelectric circuits. 3,354,441, 11-21-67, Cl. 340—173.1.

Gangelhoff, Vernon E. Bathtub construction. 3,299,444, 1-24-67, Cl. 4—173.

Gangell, Lawrence J. Automobile waste receptacle. 3,321,-237, 5-23-67, Cl. 296—63.

Gangemi, John J.: *See*—
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Ganger, Harry. Practice putting cup. 3,341,206, 9-12-67, Cl. 273—177.

Gangewere, Ray O.: *See*—
Fleck, Francis W., and Gangewere. 3,339,614.

Ganier, Mark B. Drying cabinet. 3,327,404, 6-27-67, Cl. 34—48.

Gannett, Wright K., to Mast Development Co., Inc. Digitalizer and digital servomechanism. 3,300,773, 1-24-67, Cl. 340—347.

Gannon, James J., to General Aniline & Film Corp. Copolymer vinylpyrrolidone vinylacetate film former for coating or printing on water soluble films. 3,336,156, 8-15-67, Cl. 117—138.8.

Gannon, Jesse W.: *See*—
De Lorme, Thomas L., Jr., Gannon, and McDonough. 3,323,366.

Gannon, Walter F., and G. I. Poos, to McNeil Laboratories, Inc. 3-morpholinones, thiones and 5,6 oxazines. 3,308,-121, 3-7-67, Cl. 260—244.

Ganouna-Cohen, Gilbert, to Commissariat a l'Energie Atomique. Contact electrometers with oscillating blades. 3,304,426, 2-14-67, Cl. 250—83.6.

Gans, Carl, and W. Tanski, Jr.: said Tanski, assor. to said Gans. Remote control focusing attachment for a microscope. 3,350,977, 11–7–67, Cl. 88—1.

Gans, Daniel, Jr., W. C. Woodman, R. A. De Luca, and N. B. Cleveland, to Stone & Webster Engineering Corp. Containment vessels. 3,322,141, 5–30–67, Cl. 137—312.

Gans, Philip L. Spool and bobbin caddy. 3,305,190, 2–21–67, Cl. 242—139.

Gänsheimer, Josef, and O. Schanzer, to Molykote Produktrons G.m.b.H. Extreme pressure lubricants. 3,344,065, 9–26–67, Cl. 252—18.

Gansl, Hy. Apparatus for folding material. 3,296,986, 1–10–67, Cl. 112—2.

Ganssen, Alexander, and J. George, to National Co., Inc. Molecular beam cesium getter. 3,305,290, 2–21–67, Cl. 316—25.

Gansser, Charles, and W. Schindler, to Geigy Chemical Corp. Methods for treating spastic conditions. 3,320,129, 5–16–67, Cl. 167—65.

Gantner, Erich R.: *See*—
Naujoks, Rudolf A. W., Held, Prinzbach, and Gantner. 3,319,819.

Gantner, Robert J. Dispenser container. 3,295,717, 1–3–67, Cl. 221—46.

Gantt, Jack S.: *See*—
Seekins, Harold L., and Gantt. 3,336,528.

Gantz, Carroll M., and N. E. Spencer, to The Hoover Co. Suction cleaners with tool storage. 3,316,584, 5–2–67, Cl. 15—323.

Gantz, William A., to G.M.R., Inc., d.b.a. General Measurement Research. Device and method for tuning resonating instruments. 3,339,446, 9–5–67, Cl. 84—456.

Ganz, Daniel M., and H. J. Mahler, to Darrol Co., Inc. Display rack divider. 3,298,538, 1–17–67, Cl. 211—184.

Ganz, Robert H., to Continental Can Co., Inc. Machine for and method of applying carriers to containers. 3,303,631, 2–14–67, Cl. 53—48.

Ganzel, Joseph R., and C. N. Lynk, Jr., to Motorola, Inc. Signal mixing circuit including varactor diode. 3,323,062, 5–30–67, Cl. 325—449.

Ganzinotti, Jean V., to Etablissements Maille et Vagneux. Fluid propulsion device. 3,318,262, 5–9–67, Cl. 104—155.

Ganzinotti, Jean V., to Etablissements Maille et Vagneux and Equipement Moderne Industriel Par Application du Caoutchouc Manufacture et des Plastiques "E.M.I." Refrigerator doors. 3,335,538, 8–15–67, Cl. 52—624.

Ganzinotti, Jean V., to Etablissements Maille et Vagneux and Equipement Moderne Industriel Par Application du Caoutchouc Manufacture et des Plastiques "EMI." Refrigerator door seal. 3,341,974, 9–19–67, Cl. 49—477.

Ganzinotti, Jean V., and M. Decubber, to Etablissements Maille et Vagneux. Air-tight doors equipped with inflatable seals. 3,302,333, 2–7–67, Cl. 49—281.

Gaon, Joseph, to Heat Timer Corp. Multi-cathode electronic stepping tube counter and indicator. 3,302,006, 1–31–67, Cl. 235—92.

Gapen, Clarence A. Vehicle pneumatic tire composition. 3,301,301, 1–31–67, Cl. 152—330.

Gapp, Roland H., to Textron Industries, Inc. Die-draw blind rivet with non-deforming die. 3,302,510, 2–7–67, Cl. 85—77.

Garan Inc.: *See*—
Glisson, Clyde E., and King. 3,315,854.

Garand, Edward A., and J. L. Galvagni, to Transistor Electronics, Inc. Electrolytic capacitor including container and means preventing closure plug leakage. 3,333,164, 7–25–67, Cl. 317—230.

Garasi, Louis: *See*—
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Garay, Miguel A. Removable cork. 3,307,727, 3–7–67, Cl. 215—55.

Garay, Miguel A., 50% to P. L. Struebing. Bartender's aid. 3,327,682, 6–27–67, Cl. 118—16.

Garay, Paul N. Centrifugal roller torque converter. 3,330,392, 7–11–67, Cl. 192—103.

Garber, John D.: *See*—
Meigs, Frederick M., Micchelli, Wasserman, and Garber. 3,355,458.
Wasserman, David, Garber, and Meigs. 3,345,433.

Garber, John D., G. M. Ide, and M. F. Meigs, to Merck & Co., Inc. Shrinkproofing wool through serial impregnation with a diisocyanate having one or two terminal ester groups and a diamine. 3,357,785, 12–12–67, Cl. 8—128.

Garber, John D., D. Wasserman, and R. A. Gasser, to Merck & Co., Inc. Polyurethanes and polyureas from diisocyanates. 3,358,005, 12–12–67, Cl. 260—404.5.

Garber, John K.: *See*—
Fuge, Ferdinand T., and Garber. 3,321,087.

Garber, Murray, and B. Miller, to American Cyanamid Co. Method of preparing thiazolines. 3,297,708, 1–10–67, Cl. 260—306.7.

Garberi, Sergio, and G. Riccardi, to Ing. C. Olivetti & C. S.p.A. Program control device for an adding or accounting machine. 3,318,520, 5–9–67, Cl. 235—60.47.

Garbuny, Max, to Westinghouse Electric Corp. Transmission line monitor apparatus utilizing electromagnetic radiation between the line and a remote point. 3,312,895, 4–4–67, Cl. 324—96.

Garbuny, Max, to Westinghouse Electric Corp. Metastable ion pinch light source. 3,358,169, 12–12–67, Cl. 313—63.

Garbus, Richard O., to Worthington Corp. Minimum discharge pressure regulator for rotary compressors. 3,318,514, 5–9–67, Cl. 230—206.

Garbus, Sol. Folding door structure. 3,297,077, 1–10–67, Cl. 160—231.

Garbutt, John T., to Grain Processing Corp. Purification of enzymes. 3,318,782, 5–9–67, Cl. 195—66.

Garcea, Giampaolo, to Alfa Romeo S.p.A. Injection system for internal combustion engines, sensitive to the specific weight of the air. 3,312,208, 4–4–67, Cl. 123—140.

Garcia, Anthony M., and L. H. Redford, to Earl C. Gibbs, Inc. Apparatus for dressing slaughtered animals. 3,317,949, 5–9–67, Cl. 17—24.

Garcia, Anthony M., and L. H. Redford, to Earl C. Gibbs, Inc. Conveyor systems. 3,318,261, 5–9–67, Cl. 104—91.

Garcia, Armando J., to United-Carr Inc. Wedge base bulb socket. 3,354,423, 11–21–67, Cl. 339—128.

Garcia, Dianna E.: *See*—
McNeal, Hugh E. 3,344,444.

Garcia, Domingo B., and D. B. Gomez. Luminous buoy for life belts. 3,324,489, 6–13–67, Cl. 9—8.3.

Garcia, Henri, to Centre National de la Recherche Scientifique (French Government Administration). Methods of preparing thiotrithiazyl chloride. 3,326,643, 6–20–67, Cl. 23—357.

Garcia, Joseph R.: *See*—
Chiou, Charles, and Garcia. 3,325,882.

Garcia, Pedro A. Manufacture of footwear. 3,333,353, 8–1–67, Cl. 36—68.

Garcia, Ramon: *See*—
Hammitt, Frederick G., Garcia, Robinson, and Aydinmakine. 3,331,589.

Garcia, Uville A. Electric control switch for automobile air conditioners. 3,312,917, 4–4–67, Cl. 335—122.

Garcia Boutigue, Hector S. Photo-composing machine. 3,315,561, 4–25–67, Cl. 88—24.

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Van Herk, Adrian P., and Behnke. 3,338,606.

Garey Corp.: *See*—
Steinmetz, Edward F. 3,312,355.

Gard, Don L., and J. E. Wachtstetter, to Eli Lilly & Co. Method of increasing production of salable eggs. 3,352,684, 11–14–67, Cl. 99—4.

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Gardberg, Joseph, to Motorola, Inc. Decoding system. 3,335,405, 8–8–67, Cl. 340—164.

Gardel, Robert, and E. Gorsky. Doll with head and eye animating mechanism. 3,295,253, 1–3–67, Cl. 46—135.

Gardel, Robert, and E. Gorsky. Walking doll or the like. 3,300,892, 1–31–67, Cl. 46—149.

Gardel, Robert, and E. Gorsky, to Parisette Dolls, Inc. Doll's eye with mechanism for opening the eye in opposition to gravity. 3,330,065, 7–11–67, Cl. 46—120.

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Illingworth, Robert H., and Benson. 3,354,028.

Garden, William D., to Imperial Chemical Industries Ltd. Heat sealable polypropylene film and method of making. 3,336,152, 8–15–67, Cl. 117—47.

Garden, William D., and R. A. Hall, to Imperial Chemical Industries Ltd. Heat sealable polypropylene film. 3,323,937, 6–6–67, Cl. 117—47.

Gardener, Colin D.: *See*—
Schulmeyer, Raumond M., and Gardener. 3,297,883.

Gardey, Rolf H. Flow control valve. 3,359,997, 12–26–67, Cl. 137—219.

Gardille, Emile. Composition for accelerated grinding. 3,345,146, 10–3–67, Cl. 51—304.

Gardiner, John B.: *See*—
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Gardiner, Kenneth W. J.: *See*—
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Gardiner, Robert F. Differentiating metal detector for detecting metal objects and distinguishing between detected diamagnetic and non-diamagnetic objects. 3,355,658, 11–28–67, Cl. 324—3.

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Gardner, Charles W., to Caterpillar Tractor Co. Load balancing system for hydraulic jack. 3,353,352, 11–21–67, Cl. 60—51.

Gardner, Colin D., M. S. Chester, and F. A. Reynolds, to Westinghouse Electric Corp. Transistorized high voltage regulated power supply system with temperature compensating means. 3,327,199, 6–20–67, Cl. 321—2.

Gardner-Denver Co.: *See*—
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Diachenko, Sergej A. 3,356,166.
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Gardner, Edson F. Throttle stop and holding device. 3,327,818, 6–27–67, Cl. 192—3.

Gardner, Edwin A., to Esengee Harvester Corp. Picker transportation and fruit-delivery apparatus. 3,305,113, 2–21–67, Cl. 214—83.1.

Gardner, Ernest A., to McDowell-Wellman Engineering Co. Anti-flushing automatic screw feeder. 3,338,472, 8–29–67, Cl. 222—55.

Gardner, Frank D. Garland. 3,318,755, 5–9–67, Cl. 161—25.

Gardner, Frank H., to Air Reduction Co., Inc. Anesthetic and analgesic inhaler apparatus. 3,353,535, 11–21–67, Cl. 128—188.

Gardner, Gary L.: *See*—
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Gardner, George J.: *See*—
Taylor, William C., Gardner, and Grafius. 3,338,363.

Gardner, George J., to Automation Devices, Inc. Sizing and orienting device and method. 3,313,410, 4–11–67, Cl. 209—73.

Gardner, George S., and A. J. Saukaitis, to Amchem Products, Inc. Chemical plating process. 3,346,404, 10–10–67, Cl. 106—1.

Gardner, Harry, to The Austin Motor Co. Ltd. Variable-speed power transmission mechanisms. 3,308,673, 3–14–67, Cl. 74—333.

Gardner, Henry H., to Ethyl Corp. Apparatus for surface grinding generally spherical elements. 3,300,905, 1–31–67, Cl. 51—33.

Gardner, Homer K., Jr.: *See*—
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Gardner, Hugh B., to United States of America, Navy. Signal simulator for phase channel combiners. 3,344,429, 9–26–67, Cl. 343—113.

Gardner, Jimmie S. Bulk carrier and conveyor assembly. 3,315,826, 4–25–67, Cl. 214—83.2.

Gardner, Joe H., to Virginia Industries, Inc. Removable caps for curb boxes. 3,326,404, 6–20–67, Cl. 220—24.5.

Gardner, John, and M. I. Ritchie, to Utah Construction & Mining Co. Leaching of uranium ore in situ. 3,309,140, 3–14–67, Cl. 299—4.

Gardner, John B., and B. G. Harper, to The Dow Chemical Co. Bacteria resistant latices of graft copolymers of N-vinyl heterocyclic monomers on polymeric backbones. 3,322,712, 5–30–67, Cl. 260—29.6.

Gardner, John F., P. A. Lawrence, and J. N. Turnbull, to The British Petroleum Co., Ltd. Removing olefins from molecular sieve desorption gas. 3,355,381, 11–28–67, Cl. 208—310.

Gardner, John N., to Schering Corp. Method for introducing an oxygen function into a steroid molecule containing a keto group. 3,356,696, 12–5–67, Cl. 260—397.4.

Gardner, John N., to Smith Kline & French Laboratories. Guanidinoalkylbenzodioxan derivatives. 3,360,529, 12–26–67, Cl. 260—340.3.

Gardner, Lawrence H. Valve. 3,316,930, 5–2–67, Cl. 137—270.

Gardner, Leslie L., and J. P. Jones, Jr., to Navigation Computer Corp. Tape programmed machine tool control system. 3,297,929, 1–10–67, Cl. 318—162.

Gardner, Orville N. Mattress retainer. 3,350,726, 11–7–67, Cl. 5—317.

Gardner, Richard T., Jr., and D. J. Monagle, to Hercules Inc. Light-sensitive complex of soluble silver salts and cellulose derivatives. 3,338,716, 8–29–67, Cl. 96—113.

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Gardner, Timothy F. Closure for drinking containers. 3,301,459, 1–31–67, Cl. 229—7.

Gardner, William B., J. F. Kuhlberg, and P. W. McLaughlin, to United Aircraft Corp. Gas turbine engine fuel control. 3,348,375, 10–24–67, Cl. 60—39.28.

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Garey, Don Q., to Ranger Tool Co., Inc. Apparatus for skinning a chain of sausages and the like. 3,312,995, 4–11–67, Cl. 17—1.

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Garfield, Eugene, and L. Lutzker, to Institute for Scientific Information. Document copying device having parallel signal transmission parts. 3,318,996, 5–9–67, Cl. 178—6.6.

Garfield, Eugene, and L. Lutzker, to Institute for Scientific Information, Inc. Copying apparatus having a hand-held scanner synchronized to the recording unit. 3,346,692, 10–10–67, Cl. 178—6.

Garfield, William L., to International Standard Electric Corp. Electrical pulse rate counter circuit. 3,324,391, 6–6–67, Cl. 324—78.

Garfield, William L., to International Standard Electric Corp. Signal comparator for determining a percentage difference between two signals. 3,339,180, 8–29–67, Cl. 340—169.

Garfinkel, Jack, to Speedfast Corp. Pressure air actuated tool and valve structure for use therewith. 3,301,139, 1–31–67, Cl. 91—355.

Garfinkel, Marvin, and W. E. Engeler, to General Electric Co. High power semiconductor laser devices. 3,303,432, 2–7–67, Cl. 331—94.5.

Garfinkle, Marvin. Pneumatic anti-skid vehicle tires. 3,340,921, 9–12–67, Cl. 152—208.

Gargani, Arnold J., to Leeds & Northrup Co. Silicon controlled rectifier relay driver with feedback. 3,310,714, 3–21–67, Cl. 317—148.5.

Gargini, Eric J., to Communications Patents Ltd. Colour television systems. 3,303,272, 2–7–67, Cl. 178—5.2.

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Garibotti, Domenick J., to United Aircraft Corp. Alloy diffused transistor. 3,340,601, 9–12–67, Cl. 29—582.

Garibotti, Domenick J., to United Aircraft Corp. Fabrication of thin film devices. 3,360,398, 12–26–67, Cl. 117—212.

Garibotti, Domenick J., K. O. Olson, and J. E. Taylor, to United Aircraft Corp. Method of making terminated microwafers. 3,322,655, 5–30–67, Cl. 204—15.

Garih, Henri. Cutting blade mounting heads. 3,345,721, 10–10–67, Cl. 29—105.

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Wanders, Hans H. 3,329,430.

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Garland, Theodore F. Feeder and separator apparatus. 3,329,268, 7–4–67, Cl. 209—423.

Garland, Theodore F. Material cleaning apparatus. 3,357,555, 12–12–67, Cl. 209—18.

Garland, Walter D., to The Western Co. of North America. Self-disintegrating bag. 3,347,297, 10–17–67, Cl. 150—1.

Garlet, Robert, to Office National Industriel de l'Azote. Method of removing nitrogen oxides from gases. 3,329,478, 7–4–67, Cl. 23—2.

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Garls, James D., S. J. Schmidt, and C. N. Fangman, to Caterpillar Tractor Co. High speed slip ring. 3,317,878, 5–2–67, Cl. 339—5.

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Garner, Albert Y., to Monsanto Research Corp. S-triazine-1,3,5-tris (ammonium alkyl phosphonates). 3,296,265, 1–3–67, Cl. 260—249.6.

Garner, Albert Y., to Monsanto Research Corp. Process for preparing hydroxyalkyl phosphine oxides. 3,346,647, 10–10–67, Cl. 260—606.5.

Garner, Albert Y., to Monsanto Research Corp. N-substituted ammonium salts of mono-esterified phosphonic acids. 3,354,166, 11–21–67, Cl. 260—293.

Garner, Albert Y., to Monsanto Research Corp. Arylammonium phosphonates and preparation thereof. 3,354,215, 11–21–67, Cl. 260—579.

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Garner, Oscar G., to General Cable Corp. Dual laminated telephone cable sheath. 3,321,572, 5–23–67, Cl. 174—105.

Garner, Oscar G., to General Cable Corp. Shielded common return pairs and coaxial cable. 3,324,417, 6–6–67, Cl. 333—1.

Garner, Oscar G., to General Cable Corp. Method and apparatus for making precision sized tubing. 3,332,138, 7–25–67, Cl. 29—430.

Garner, William C. Internal combustion engine by-products emission control means. 3,358,661, 12–19–67, Cl. 123—119.

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Garnett, Donald W., to The Olofsson Corp. Weighing apparatus. 3,339,651, 9–5–67, Cl. 177—55.

Garnett, James R., and H. Brown, to United States of America, Navy. Dimmer circuit for gas discharge tubes. 3,321,666, 5–23–67, Cl. 315—209.

Garnett, Ruth J.: *See*—
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Garnier, Jean-Pierre: *See*—
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Garnier, John J., to Cutler Hammer, Inc. Arc suppressor system for ink mist control. 3,295,441, 1–3–67, Cl. 101—335.

Garnier, Michel R., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Electric current generator in combination with an internal combustion engine. 3,349,248, 10–24–67, Cl. 290—2.

Garnier, Simone, and D. E. Buntschu; said Buntschu assor. to said Garnier. Treating cellulosic material. 3,311,483, 3–28–67, Cl. 106—93.

Garnish, Edward W., to Ciba Ltd. New epoxide resins, processes for their production and hardenable compositions containing such epoxide resins. 3,310,528, 3–21–67, Cl. 260—47.

Garnish, Edward W., to Ciba Ltd. Production of epoxide resins from aromatic amines in the presence of a hydroxyl group-containing promoter. 3,360,486, 12–26–67, Cl. 260—2.

Garofalow, Donald G., and E. P. Schlosser. Electric humidifier unit and method and means of illumination of the unit. 3,306,010, 2–28–67, Cl. 55—263.

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Garrahan, Richard. Control valve for diving apparatus. 3,351,-089, 11–7–67, Cl. 137—599.

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Mortimer, Edmund W. 3,359,006.
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Garrett, David, to Halcon International Inc. Process for the purification of ethylene oxide. 3,335,547, 8–15–67, Cl. 55—75.

Garrett, Derek P.: *See*—
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Warman, Bloomfield J., Garrett, and Derbyshire. 3,334,274.

Garrett, Douglas R., and J. S. Millar, to Parker-Hannifin Corp. Fuel nozzle and adapter assembly. 3,295,553, 1–3–67, Cl. 137—614.06.

Garrett, Dwight A., to Garrett Enumclaw Co. Chain-drive articulating frame vehicle. 3,299,981, 1–24–67, Cl. 180—51.

Garrett, Edward O., Jr., and P. M. Noble, to Westinghouse Air Brake Co. Railway car retarder control systems. 3,340,963, 9–12–67, Cl. 188—62.

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Garrett, George K., Co.: *See*—
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Garrett, George K., Co., Division of MSL Industries, Inc.: *See*—
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Garrett, Henry U. Pressure responsive gas lift valve. 3,318,-322, 5–9–67, Cl. 137—155.

Garrett, Henry U., to Udell Inc. Method and apparatus for installing and removing gas lift valves in a well. 3,334,690, 8–8–67, Cl. 166—46.

Garrett, Henry U. Anchor for a well tool. 3,342,269, 9–19–67, Cl. 166—137.

Garrett, Henry U., C. M. Peters, and R. W. Dinning, assors., to said Garrett. Well fluid flow regulator. 3,318,386, 5–9–67, Cl. 166—224.

Garrett, Henry U., C. M. Peters, and R. W. Dinning; said Peters and said Dinning assors. to said Garrett Well producing system and valve for controlling flow of well fluid. 3,333,640, 8–1–67, Cl. 166—224.

Garrett, Henry U., C. M. Peters, and R. W. Dinning. Well apparatus. 3,353,605, 11–21–67, Cl. 166—53.

Garrett, Howard R., and C. G. Austin, Jr., to The Pre-O-Form Corp. Carton forming and filling machine. 3,307,-325, 3–7–67, Cl. 53—186.

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Ayers, Charles C., and Garrett. 3,329,175.

Garrett, Michael E., to The British Oxygen Co. Ltd. Apparatus employing gas bearings. 3,341,173, 9–12–67, Cl. 253—39.

Garrett, Robert R., to E. I. du Pont de Nemours, and Co. Non-settling chloroprene copolymer modified phenolic resin adhesive solution. 3,308,087, 3–7–67, Cl. 260—31.2.

Garrett, Robert Y.: *See*—
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Garrett, Roger E., to The Regents of The University of California. Plant thinning machine and method of thinning plants. 3,358,775, 12–19–67, Cl. 172—6.

Garrett, Russell U. Laminating process and apparatus. 3,340,-132, 9–5–67, Cl. 156—580.

Garrett, Sterling P., to Wincharger Corp. Electric generating systems. 3,353,089, 11–14–67, Cl. 322—27.

Garrett, Walter L., to The Dow Chemical Co. Electrophotographic process using an alkoxy ether aluminum fatty acid salt as the cross-linking catalyst. 3,326,680, 6–20–67, Cl. 96—1.

Garrett, Walter L., to The Dow Chemical Co. Phenol-formaldenyde resin composition. 3,336,243, 8–15–67, Cl. 260—2.5.

Garrett, Walter L., and R. E. Friedrich, to The Dow Chemical Co. Electrophotographic printing process using a dialkoxy aluminum fatty acid salt as the cross-linking catalyst. 3,329,499, 7–4–67, Cl. 96—1.

Garrett, Wayne C.: *See*—
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Freedlander, Abraham L., Matthews, and Garrett. 3,343,-351.
Freedlander, Abraham L., Matthews, and Garrett. 3,343,-352.
Freedlander, Abraham L., Matthews, and Garrett. 3,343,-353.
Freedlander, Abraham L., Matthews, and Garrett. 3,343,-354.
Freedlander, Abraham L., Matthews, and Garrett. 3,343,-355.

Garrett, William G.: *See*—
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Garrett, William R.: *See*—
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Garrett, William R., to Drilco Oil Tools, Inc. Earth boring apparatus. 3,320,004, 5–16–67, Cl. 308—4.

Garrett, William R., and S. C. Moore, to Drilco Oil Tools, Inc. Reaming apparatus. 3,306,381, 2–28–67, Cl. 175—346.

Garrett, William R., and J. D. Nixon, Jr., to Drilco Oil Tools, Inc. Drill bit control apparatus. 3,326,305, 6–20–67, Cl. 175—81.

Garrette, Charles H., Jr., and H. M. Ryan, to Armed Forces Equipment Development Corp. Mast assembly and ground engaging support therefor. 3,318,560, 5–9–67, Cl. 248—44.

Garrison, Charles E., D. G. Kneller, and C. A. Speas, to Hedwin Corp. Plastic container with integral dispensing tube. 3,318,505, 5–9–67, Cl. 229—7.

Garrison, George R.: *See*—
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Garrison, Harry F. Anti-spill filling hose nozzle. 3,334,821, 8–8–67, Cl. 239—589.

Garrison, Joe K.: *See*—
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Garrison, John B., to United States of America, Navy. Radar search system. 3,309,700, 3–14–67, Cl. 343—8.

Garrison, Judd F., to Pneumo Dynamics Corp. Semi-conductor sensing assembly. 3,327,270, 6–20–67, Cl. 338—2.

Garrison, Robert A., and C. F. Schoelm; said Schoelm assor. to said Garrison. Fluid operated booster having an accumulator safety system. 3,353,451, 11–21–67, Cl. 91—6.

Garrison, Robert A., and C. F. Schoelm; said Schoelm assor. to said Garrison. Fluid operated booster. 3,354,788, 11–28–67, Cl. 91—373.

Garrity, John K. Golf club including handle means with tapered upper end of reduced diameter. 3,295,850, 1–3–67, Cl. 273—81.4.

Garrod, Norman J. Gramophone record sleeves. 3,307,772, 3–7–67, Cl. 229—68.

Garrod, Norman J. Gramophone record sleeves. 3,344,978, 10–3–67, Cl. 229—68.

Garscia, Janusz L. A. Method of welding metal bodies separated by an adhesive layer. 3,337,711, 8–22–67, Cl. 219—92.

Garshelis, Ivan J.: *See*—
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Garske, Hubert A.: *See*—
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Garthoffner, Hermann E. Double deck auto park apparatus. 3,351,218, 11–7–67, Cl. 214—16.1.

Gartin, John L., and R. K. Gellatley, to FMC Corp. Carton transporting mechanism. 3,352,405, 11–14–67, Cl. 198—131.

Gartley, William H., to Whirlpool Corp. Dual function safety thermostat for dryers. 3,325,908, 6–20–67, Cl. 34—48.

Gartner, Berthold, to Bronzavia. Hydraulic pressure regulator. 3,307,568, 3–7–67, Cl. 137—115.

Gartner, F. W., Co.: *See*—
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Gartner, Rolf: *See*—
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Gartner, Stanley J., to Sylvania Electric Products Inc. Coating removal device. 3,326,224, 6–20–67, Cl. 134—58.

Gartrell, Charles S., to Linker Machines, Inc. Casing linking machine for sausage and the like. 3,328,835, 7–4–67, Cl. 17—34.

Gartrell, John T., to Birdsboro Corp. Building panel splicing. 3,357,146, 12–12–67, Cl. 52—309.

Gartzke, Rudolf E., 30% to W. R. Gartzke. Aircraft. 3,343,-768, 9–26–67, Cl. 244—130.

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Gartzke, Rudolf E. 3,343,768.

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Garver, Robert V., to United States of America, Army. Binary 180 diode phase modulator. 3,349,342, 10–24–67, Cl. 332—9.

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Garvin, Graydon S., and D. G. Kuharik, to The B. F. Goodrich Co. Injection molding machine. 3,319,297, 5–16–67, Cl. 18—30.

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Garwin, Richard L., to International Business Machines Corp. Magnetic switching device. 3,339,165, 8–29–67, Cl. 338—32.

Garwin, Richard L., to International Business Machines Corp. Superconducting electrical power transmission systems. 3,343,035, 9–19–67, Cl. 317—13.

Garwin, Richard L., W. A. Hardy, and R. W. Landauer, to International Business Machines Corp. Optical traveling wave parametric devices. 3,297,875, 1–10–67, Cl. 250—199.

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Gasch, Dale J., and R. D. Pitsch, to American Excelsior Corp. Shaping apparatus. 3,351,977, 11–14–67, Cl. 18—4.

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Gasior, Stanley J., A. J. Forney, and J. H. Field, to United States of America, Interior. Decaking of caking coals. 3,357,-896, 12–12–67, Cl. 201—34.

Gaska, Remigius A.: *See*—
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Gaska, Remigius A., to The Dow Chemical Co. Purification of magnesium chloride with alcohol. 3,357,800, 12–12–67, Cl. 23—297.

Gaska, Remigius A., to The Dow Chemical Co. Precipitation of potassium halides from mixed brines using organic solvents. 3,359,076, 12–19–67, Cl. 23—300.

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Gasper, Ralph L., R. A. Johnson, and R. G. Treptow, to Interlake Steel. Strapping machine. 3,320,874, 5–23–67, Cl. 100—3.

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Gassino, Teresio, to Ing. C. Olivetti & C., S.p.A. Power driving device for a calculating machine. 3,331,556, 7–18–67, Cl. 235—62.

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Gassino, Teresio, and M. Bovio, to Ing. C. Olivetti & C., S.p.A. Storing device for a calculating or like machine. 3,312,293, 4–4–67, Cl. 235—60.

Gassino, Teresio, and M. Bovio, to Ing. C. Olivetti & C., S.p.A. Total taking device for a printing calculating or like machine. 3,358,917, 12–19–67, Cl. 235—60.31.

Gassino, Teresio, and L. Bertino, to Ing. C. Olivetti & C., S.p.A. Paper feed mechanism for a printing calculating or like machine. 3,358,918, 12–19–67, Cl. 235—60.51.

Gassler, John H., to Sperry Rand Corp. Runway image generating apparatus. 3,305,865, 2–21–67, Cl. 343—108.

Gassman, Max P., to Deere & Co. Pressure modulating hydraulic control valve. 3,317,252, 5–2–67, Cl. 303—54.

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Gaston, Gardner E., and E. Mitchell, to Gulf Research & Development Co. Stabilized fuel oil compositions. 3,340,030, 9–5–67, Cl. 44—62.

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Gate, James M., and D. A. Hart, Jr., to Westinghouse Electric Corp. Sealing arrangement for a rotatable shaft. 3,309,-095, 3–14–67, Cl. 277—154.

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Gateff, George, to the B. F. Goodrich Co. Process for the chlorination of polyvinyl chloride. 3,334,078, 8–1–67, Cl. 260—92.8.

Gateff, George, and J. W. Summers, to The B. F. Goodrich Co. Process for making heat-stable hydroxyl-containing vinyl polymer. 3,296,230, 1–3–67, Cl. 260—87.1.

Gately, James J., and H. Siemer, Jr., to The Instrument Laboratory Inc. Contactless switching device. 3,355,593, 11–28–67, Cl. 250—231.

Gately, Joseph R., to Forbro Design Corp. Regulated power supply with constant voltage/current cross-over and mode indicator. 3,303,411, 2–7–67, Cl. 323—4.

Gately, Joseph R., to Forbro Design Corp. Current regulated power supply with compensating means for extraneous shunting current paths across the load. 3,303,412, 2–7–67, Cl. 323—4.

Gately, Joseph R., to Forbro Design Corp. Transistor regulated power supply leakage current supply. 3,323,035, 5–30–67, Cl. 321—16.

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Gates, Harris G., to Gates & Sons, Inc. Hinged tie-end latch assembly for gang forms. 3,343,771, 9–26–67, Cl. 248—205.

Gates, James T., R. L. Legue, and W. R. Dick. Reminder clock. 3,353,347, 11–21–67, Cl. 58—6.

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Gates, Paul. Fishing rod support. 3,327,978, 6–27–67, Cl. 248—42.

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Gates, Paul E., to Sylvania Electric Products Inc. Single ended, quartz type incandescent lamp. 3,351,802, 11–7–67, Cl. 313—315.

Gates, Robert L., to TRW Inc. Gyro compass misalignment measuring apparatus and method. 3,346,966, 10–17–67, Cl. 33—226.

Gates, Robert W., to United States of America, Atomic Energy Commission. Minimal gas producing low detonation rate explosive and detonation sources. 3,299,811, 1–24–67, Cl. 102—24.

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Gathman, Albert, and E. P. Cashman, to Esso Research and Engineering Co. Wax polishing composition. 3,328,179, 6–27–67, Cl. 106—10.

Gathman, David W., and C. A. Foster, to Bethlehem Steel Co. Method and means for preventing center wires from working out of a strand of a wire rope splice. 3,295,309, 1–3–67, Cl. 57—142.

Gatley, John A., J. Webb, and R. R. Gallie, to United Kingdom Atomic Energy Authority. Vented nuclear reactor fuel element. 3,357,893, 12–12–67, Cl. 176—68.

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Gatsis, John G., to Universal Oil Products Co. Hydrorefining petroleum crude oil. 3,331,769, 7–18–67, Cl. 208—210.

Gatsis, John G., to Universal Oil Products Co. Regeneration of deactivated hydrorefining catalyst. 3,336,238, 8–15–67, Cl. 252—411.

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Gatti, Arno, and J. H. Untiedt, to General Electric Co. Process for producing alumina whiskers. 3,334,965, 8–8–67, Cl. 23—142.

Gatti, Fernando, and E. De Barbieri. Diving masks. 3,336,-599, 8–22–67, Cl. 2—14.

Gatti, Giancarlo, to Ing. C. Olivetti & C., S.p.A. Document aligning and feeding device. 3,298,682, 1–17–67, Cl.271—4.

Gattner, Günther E., and K.-H. Widdel, to Siemens & Halske Aktiengesellschaft. Call metering in communication systems. 3,324,242, 6–6–67, Cl. 179—9.

Gattner, Gunther E., U. Tanke, and K.-H. Widdel, to Siemens & Halske Aktiengesellschaft. System for monitoring and pick-up of signal pulses occurring at random sequence on signal lines with or without interposed connecting devices, in particular, tariff-charge pulses in telephone installations. 3,342,939, 9–19–67, Cl. 179—7.1.

Gattner, Gunther E., and K.-H. Widdel, to Siemens & Halske Aktiengesellschaft. Arrangement for registering call metering impulses in a communication system. 3,342,940, 9–19–67, Cl. 179—9.

Gattone, Daniel H. Self-contained applicator for use with pressurized containers. 3,310,830, 3–28–67, Cl. 15—552.

Gatward, Harry F., to Coloroll Ltd. Carrier bags and handles for use therewith. 3,335,941, 8–15–67, Cl. 229—54.

Gatz, Edwin C., to International Telephone and Telegraph Corp. Switching system to maintain coherent transmission from alternate antennas. 3,337,019, 12–5–67, Cl. 343—100.

Gatza, Eugene M., to The Dow Chemical Co. Cleaner for food residues. 3,296,147, 1–3–67, Cl. 252—153.

Gatzi, Karl, to H. A. Whitten & Co. 7-hydrazino-3,4,5,6-tetrahydro-2H-azepines. 3,299,045, 1–17–67, Cl. 260—239.

Gatzke, Harold E., M. S. Ariens, and V. G. Doty. Method and apparatus for hydraulic seed metering and planting. 3,322,-080, 5–30–67, Cl. 111—1.

Gaubatz, Arthur W., to General Motors Corp. Gas injection thrust vector control system for rocket engines. 3,318,532, 5–9–67, Cl. 239—265.23.

Gaubatz, Donald C., to United States of America, Navy. Shield utilized as flux path for magnetic head. 3,355,727, 11–28–67, Cl. 340—174.1.

Gaubis, Leonard L., to United Aircraft Corp. Reduction gear construction. 3,309,936, 3–21–67, Cl. 74—410.

Gaudet, Paul-Emile. Liquid filling pipe. 3,331,405, 7–18–67, Cl. 141—330.

Gaudez, Jean-Claude, and R. Roche, to Commissariat a l'Energie Atomique. Liquid-moderated, gas-cooled nuclear reactor and pressure equalization system. 3,342,689, 9–19–67, Cl. 176—52.

Gaudfrin, Guy. Rotary filter having pivoting filter elements. 3,298,524, 1–17–67, Cl. 210—128.

Gaudino, Orlando A. Visor clip. 3,300,168, 1–24–67, Cl. 248—229.

Gaudino, Orlando A. Coin, key and paper holder mountable on dashboard. 3,329,277, 7–4–67, Cl. 211—13.

Gaudlitz, Arthur, to Siemens Aktiengesellschaft. Point-contact diode with Au-Pt point. 3,355,638, 11–28–67, Cl. 317—236.

Gauer, Walter, and R. E. Hathaway. Metal strip edging apparatus. 3,343,394, 9–26–67, Cl. 72—199.

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Gaugler, Richard S., and D. C. Siegla, to General Motors Corp. Electric hot plate. 3,316,390, 4–25–67, Cl. 219—464.

Gaul, Martin. Exercising apparatus. 3,306,611, 2–28–67, Cl. 272—81.

Gaul, Martin. Exercising bench comprising hinged and adjustable seating portions. 3,342,485, 9–19–67, Cl. 272—58.

Gauld, Godfrey R., to Avco Corp. Piezoelectric delayed squib initiator. 3,340,811, 9–12–67, Cl. 102—70.2.

Gauld, Godfrey R., to Avco Corp. Relaxation oscillator requiring low current. 3,348,167, 10–17–67, Cl. 331—111.

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Gault, Robert H., to Bethlehem Steel Corp. Pumping unit design. 3,310,988, 3–28–67, Cl. 74—41.

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Gautreaux, Marcellan F., to Ethyl Corp. Separation of aluminum alkyl compounds. 3,326,954, 6–20–67, Cl. 260—448.

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Gebel, Radames K. H., to United States of America, Air Force. Narrow band long range color television system incorporating color analyzer. 3,330,904, 7-11-67, Cl. 178—5.2.

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Gegauf, Fritz, Jr., to Fritz Gegauf, Berninanahmaschinenfabrik, Aktiengesellschaft. Sewing machine thread guiding means. 3,310,015, 3-21-67, Cl. 112—245.

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Dwight, Barton R. 3,342,194.
Edwards, Harold H., and Newhouse. 3,356,960.
Eff, Christian A. 3,331,943.
Egle, John E. 3,335,969.
Ehrich, Frederic F. 3,309,867.
Eisenlohr, Alfred. 3,340,084.
Ellert, Frederick J., Merriam, Peterson, and Tye. 3,327,306.
Ellis, George W. 3,295,495.
Elwell, Richard C. 3,298,751.
Enderby, Charles E. 3,349,346.
Enright, John A. 3,329,825.
Eppert, Franklin P. 3,333,150.
Eppert, Franklin P. 3,351,809.
Erb, Dale M., and Kast. 3,339,574.
Ericson, Eric A. 3,301,989.
Ericson, Eric A. 3,331,049.
Ericson, Eric A. 3,335,329.
Erwin, John R., and Perugi. 3,314,649.
Etherington, Theodore L. 3,309,219.
Evans, John T. 3,327,101.
Evans, John T. 3,349,229.
Evans, Ross M., Jr. 3,308,498.
Fahey, John R., and Lanzl. 3,346,787.
Faler, Paul E. 3,296,360.
Farnsworth, Richard G. 3,302,005.
Fazio, James A. 3,359,506.
Fenner Gunther E. 3,360,609.
Fernberger, John M. 3,338,049.
Fields, James M., and Kyzer. 3,340,459.
Finch, Thomas E., and Skogland. 3,304,408.
Finkbeiner, Herman L. 3,352,879.
Finkenstein, William R., and Olashaw. 3,357,727.
General Electric Co.: *See*—Continued
Fisher, David C., and Forman. 3,333,045.
Fisher, David C., and Forman. 3,340,493.
Fisher, Lawrence E. 3,315,129.
Flashman, Barry P. 3,346,351.
Fleischer, Robert L. 3,346,425.
Fleming, Rodney A. 3,324,473.
Fortenbach, John H., Hollowood, and Mazanek. 3,320,452.
Foster, Allan D., and Sims. 3,346,378.
Foster, William P. 3,339,933.
Foulds, Arthur E., and Sullivan. 3,359,807.
Fowler, Robert Z., and Seymour. 3,321,639.
Fox, Daniel W. 3,311,587.
Fox, Daniel W. 3,336,350.
Fox, Daniel W. 3,356,761.
Fox, Francis K. 3,343,080.
Frank, Gerald F. 3,334,320.
Frankel, Stanley P. 3,296,459.
Franklin, John S., and Baldwin. 3,348,035.
Franklin, John S., and Baldwin. 3,353,015.
Franz, Joseph P. 3,300,746.
Freeman, Arthur H., and Forman. 3,308,535.
Freeman, Arthur H., and Forman. 3,348,116.
Freid, Wilbert B. 3,358,440.
Frey, Howard A. 3,301,938.
Frey, Howard A. 3,315,046.
Frey, Howard A. 3,317,659.
Fridrich, Elmer G. 3,305,289.
Friedman Arnold I., and Beaumont. 3,310,418.
Fritz, Robert J. 3,334,023.
Gaertner, Richard F. 3,301,314.
Gaertner, Richard F. 3,356,691.
Gaines, Stanley L. 3,307,211.
Galginaitis, Simeon V. 3,302,051.
Galginaitis, Simeon V. 3,333,135.
Garfinkel, Marvin, and Engeler. 3,303,432.
Gatti, Arno, and Uttiedt. 3,334,965.
Gauthier, George E. 3,296,563.
Gauthier, George E. 3,350,525.
Gauthier, George E. 3,353,128.
Gauthier, George E., and Jencks. 3,360,751.
Gaynor, Joseph. 3,298,833.
Gaynor, Joseph. 3,346,384.
Gaynor, Joseph, Metlay, and Sewell. 3,305,361.
Gaynor, Joseph, and Stahl. 3,360,784.
Gelbard, Robert B. 3,320,761.
Gentry, Finis E. 3,303,360.
Gentry, Finis E. 3,324,359.
Gentry, Finis E. 3,332,143.
Gesmar, Jorgen, and Seymour. 3,304,625.
Getman, Clarence. 3,296,416.
Getman, Clarence. 3,350,542.
Geyer, Howard M. 3,357,664.
Geyer, Howard M., and Frewin. 3,357,283.
Glaever, Ivar. 3,356,864.
Gibb, George H. 3,329,243.
Gibb, George H. 3,333,475.
Gibson, David F. 3,351,725.
Giger, Walter, Jr., and Harton. 3,346,687.
Giles, Walter B. 3,303,810.
Giles, Walter B. 3,303,811.
Gist, William B., Jr. 3,302,404.
Gist, William B., Jr. 3,358,441.
Glashaw, William F., and Wasileski. 3,308,348.
Glenn, William E., Jr. 3,320,468.
Glenn, William E., Jr. 3,325,789.
Glenn, William E., Jr. 3,335,413.
Glenn, William E., Jr. 3,358,174.
Goetz, Ernest F. 3,310,762.
Goff, Leon E., Jr. 3,333,154.
Goldberg, Leon J. 3,309,570.
Good, William E., and Graser. 3,305,630.
Good, William E., and Graser. 3,308,230.
Good, William E., Graser, and Juhlin. 3,330,908.
Good, William E., Graser, and Vanderlaan. 3,305,631.
Good, William E., and True. 3,325,592.
Good, William E., and Vanderlaan. 3,345,462.
Goodridge, Lawrence C. 3,354,352.
Goossens, John C. 3,296,195.
Goossens, John C. 3,303,163.
Goossens, John C. 3,305,525.
Goossens, John C. 3,338,868.
Gough, Alfred B. 3,328,578.
Gould, Herbert R. 3,323,006.
Grabowski, Stanley J., and Tirtel. 3,337,755.
Grafham, Denis R. 3,310,724.
Grafham, Denis R. 3,320,473.
Grahame, Frederick W. 3,302,081.
Grams, William R. 3,297,919.
Green, Frank W. 3,334,341.
Green, Frank W., and Watrous. 3,319,126.
Green, James, Jr., and Gresens. 3,357,275.
Greene, Lawrence E. 3,341,916.
Grobel, Lloyd P. 3,317,759.
Grobel, Lloyd P., and DeForest. 3,307,252.
Groschke, George F. 3,350,751.
Grossoehme, Floyd. 3,358,210.
Grubb, Willard T. 3,328,204.
Gulick, William K. 3,314,335.
Gulick, William K. 3,322,281.
Guth, Lauren W. 3,321,261.
Gutzwiller, Frank W. 3,302,031.
Gutzwiller, Frank W. 3,335,291.

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Hagendoorn, Willem J. 3,359,053.
Hale, David J. 3,327,269.
Hall, Harold E., and Karras. 3,350,885.
Hall, Richard D. 3,359,808.
Hall, Robert N. 3,331,124.
Hall, Robert N. 3,335,084.
Hall, Robert N. 3,359,507.
Hall, Robert N. 3,359,508.
Hall, Robert N. 3,359,509.
Hall, Walter L. 3,337,512.
Halpin, George N. 3,334,334.
Haltner, Arthur J., and Luetzel. 3,297,572.
Hardy, Albert L. 3,335,970.
Ham, Donald M., and Serck-Hanssen. 3,304,414.
Hamilton, Stephen B., Jr., and Blanchard. 3,351,667.
Hammerly, Herman J. 3,360,690.
Hansen, Kenneth M. 3,353,854.
Harms, Harold B. 3,329,908.
Harnden John D., Jr., and Watrous. 3,322,933.
Harris, Lawrence A. 3,351,794.
Harton, Lynn M. 3,360,602.
Harvey, Luke M. 3,331,937.
Hauser, Charles E. 3,306,694.
Hay, Allan S. 3,300,456.
Hay, Allan S. 3,306,874.
Hay, Allan S. 3,306,875.
Hay, Allan S. 3,310,586.
Hay, Allan S. 3,332,916.
Hedges, Charles P. 3,327,666.
Heft, Eldon B., and Johnson. 3,315,189.
Heit, Henry J. 3,310,654.
Helfer, Donald F. 3,317,699.
Hemsworth, Martin C. 3,332,238.
Hemsworth, Martin C. 3,335,567.
Henderson, Wayne L. R. 3,305,255.
Henshaw, Robert W., and Tassie. 3,333,506.
Henshaw, Wallace H., Jr. 3,329,924.
Herold, Henry L., and Welzebaum. 3,354,466.
Herrick, Carlyle S. 3,341,855.
Herrick, Carlyle S., and Day. 3,317,736.
Hershyn, William. 3,353,056.
Hewett, Major W., and Meyer. 3,303,340.
Hewlett, Clarence W., Jr. 3,315,236.
Heyhal, Edward B. 3,305,658.
Hiatt, William R. 3,324,531.
Hiatt, William R., and Barrett. 3,336,514.
Hildebrand, George L. 3,321,980.
Hill, Eugene T., and Spencer. 3,303,867.
Hill, William C. 3,331,057.
Hill, William C., and Birmingham. 3,333,250.
Hlubik, Simon. 3,319,350.
Hoag, Yates M. 3,323,738.
Hoag, Yates M. 3,347,483.
Hodgdon, Russell B., Jr., Enos, and Aiken. 3,341,366.
Hodges, Merwyn E. 3,334,247.
Hodges, Ralph D., and Avila. 3,348,183.
Hoffman, Herbert N. 3,310 069.
Hoffman, Mary V. 3,305,490.
Hoffman, Mary V. 3,314,893.
Hoffmann, Daniel C. 3,358,250.
Holdgreve, Eugene A. 3,316,471.
Holliday, John H. 3,328,545.
Holub, Fred F. 3,309,334.
Holub, Fred F. 3,325,450.
Horn, Philip R. 3,301,270.
Hoth, Robert C. 3,351,189.
Howald, Werner E. 3,314,648.
Howald, Werner E. 3,319,930.
Howald, Werner E. 3,335,483.
Howell, E. K. 3,310,687.
Howell, Edward K. 3,321,641.
Howell, Edward K. 3,346,744.
Howell, Edward K. 3,346,874.
Howell, Edward K. 3,354,312.
Howell, Edward K. 3,360,713.
Hsu, Hsiung, and Wanuga. 3,320,542.
Hubrich, Frederick M. 3,303,325.
Hudak, Nicholas J. 3,333,208.
Hudson, Robert C. 3,302,158.
Hughes, Philip G. 3,305,804.
Hughes, William C., Stein, and Kunz. 3,317,104.
Hughes, William C., and Wolfe. 3,328,776.
Hull, Bobbie B. 3,299,304.
Hull, Edwin H., and Vandersluce. 3,356,473.
Hull, Thomas N., Jr. 3,303,653.
Hull, Thomas N., Jr., and Gist. 3,312,429.
Hull, Thomas N., Jr., and Rowe. 3,312,448.
Hummel, Wiley M., and Gustafson. 3,344,252.
Humphrey, John G. 3,301,951.
Humphrey, John G. 3,303,282.
Hupp, Arthur C. 3,313,984.
Hurko, Bohdan. 3,336,465.
Hyer, Donald R. 3,302,112.
Ing, Samuel W., Jr., and Jensen. 3,358,146.
Iverson, Arthur H. 3,328,619.
Jacobs, Lewis W., and Sabatella. 3,309,580.
Jacobson, Chester F. 3,351,736.
Jacobson, John W., and Poole. 3,355,992.
Jacobus, Dwight W. 3,309,887.
Jacobus, Dwight W. 3,327,493.
Jacobus, Dwight W., and Bodong. 3,300,998.
Jacomini, Omar J. 3,320,609.
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Jaffe, Mary S., and Fridrich. 3,315,111.
Jencks, Charles L. 3,309,637.
Jencks, Charles L., and Kiesel. 3,343,109.
Jenkins, Thomas E. 3,312,232.
Jenny, Alfred L. 3,351,823.
Johnson, Frithiof V. 3,355,953.
Johnson, Harry L. 3,343,565.
Jollis, Allen U., Cummings, and Bayer. 3,357,906.
Jones, Claude K., and Martin. 3,308,049.
Jones, Gary D. 3,324,678.
Jones, Gary D., Vanegas, and True. 3,350,899.
Jones, Hal, Jr., and Wood. 3,319,047.
Jones, Howard T. 3,297,970.
Joseph, Raymond S. 3,359,374.
Joseph, Raymond S., and Buell. 3,337,280.
Kaiser, Donald E. 3,313,968.
Kane, John F. 3,309,561.
Kantor, Simon W., and Sonnenberg. 3,306,876.
Kanzig, Werner. 3,296,825.
Kappus, Peter G. 3,312,424.
Kappus, Peter G. 3,335,976.
Kappus, Peter G. 3,355,890.
Kast, Howard B. 3,334,521.
Katchman, Arthur. 3,296,509.
Kauffman, Melvin R. 3,306,693.
Kavanaugh, Bernard J. 3,324,742.
Keeney, Marvin F., Jr., and Walker. 3,343,063.
Kelley, Harold P., Jr. 3,339,065.
Kelling, Leroy U. C. 3,303,421.
Kelling, Leroy U. C. 3,308,279.
Kelling, Leroy U. C. 3,319,054.
Kelm, Walter H. 3,341,920.
Kelm, Walter H. 3,341,923.
Kendt, Norman L., and Payton. 3,306,319.
Kercher, David M. 3,301,527.
Kernander, Warren N., and Van Bennekom. 3,330,027.
Kershaw, Delmar D. 3,320,352.
Kiesel, George W., and Owen. 3,296,565.
Kiesel, George W., and Owen. 3,309,478.
Kiesel, George W., and Owen. 3,340,375.
Kim, James K. S. 3,334,154.
Kim, Sang-chul. 3,335,311.
King, Ralph E. 3,320,766.
Kiser, Kenneth M., and Shade. 3,356,529.
Klebe, Johann F. 3,337,510.
Klebe, Johann F. 3,346,609.
Klebe, Johann F., and Murray. 3,352,799.
Klein, Keith W. 3,309,581.
Kling, August J., and Beggs. 3,352,729.
Knaub, Edgar W. 3,338,951.
Koch, Robert E., and Gray. 3,315,199.
Koff, Bernard L., and Burge. 3,303,998.
Kohn, Leo S., and Keane. 3,311,589.
Kolbe, Carl L. 3,358,361.
Kontkoff, John J., Okamoto, and Reynolds. 3,303,105.
Kortkamp, Donald H., and Smith. 3,354,361.
Kotheimer, William C. 3,317,794.
Kotos, Peter. 3,334,321.
Koza, Russell C. 3,298,351.
Krantz, Karl W. 3,318,844.
Kravos, Joseph F. 3,316,577.
Kresge, James S. 3,348,100.
Krueger, Carl E. 3,298,271.
Krug, George A., Jr., and Curtis. 3,325,678.
Krulls, Gerd E. 3,312,843.
Krupp, Anton M., and Stone. 3,315,216.
Krzewina, Thomas. 3,347,613.
Kuelz, Emil, Jr. 3,337,721.
Kulp, John F., and Grandey. 3,336,134.
Kulpa, Theodore A. 3,296,161.
Kurt, Howard D., and Gould. 3,307,072.
Kurtz, Donald R., and Veras. 3,302,990.
Kydd, Paul H. 3,309,866.
Lacy, Robert M. 3,305,460.
Lafferty, James M. 3,303,376.
Lafferty, James M. 3,323,002.
Lafferty, James M. 3,331,981.
Lafferty, James M. 3,331,988.
Lafferty, James M. 3,356,893.
Lafferty, James M. 3,356,894.
Lafferty, James M., and Grams. 3,312,856.
Lamoreaux, Harry F. 3,296,196.
Lamoreaux, Harry F. 3,313,773.
Lamoreaux, Harry F. 3,334,066.
Lampe, Warren R. 3,305,502.
La Plante, Gordyn T. 3,351,192.
Larsen, John E. 3,333,327.
Larsen, Leon V., and Blanchet. 3,315,514.
Larsen, Walter N., Purdy, and Schwenker. 3,359,631.
Larson, Harold A. 3,341,114.
Lass, James L., and Mefford. 3,338,791.
Lass, James L., and Venier. 3,349,004.
Laug, Ernst P. 3,343,904.
Lavoo, Norman T. 3,323,072.
Lavoo, Norman T. 3,323,073.
Lawrence, Thomas F., and Martin. 3,319,929.
Lawson, Alfred C. 3,304,468.
Lawson, Gustaf R. 3,309,544.
Lawson, James L. 3,336,142.
Lawton, Elliott J. 3,330,748.
Lee, Henry P. 3,302,181.

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Lee, Thomas H. 3,319,121.
Lee, Thomas H. 3,321,599.
Lee, Thomas H. 3,330,927.
Lee, Thomas H., and Liao. 3,309,555.
Lee, Thomas H., and Liao. 3,309,573.
Lee, Thomas H., and Wilson. 3,339,112.
Leete, Bernard D. 3,359,458.
Leibinger, George E. 3,353,129.
Leschen, John G. 3,295,937.
Levetan, Robert V. 3,342,848.
Lewis, Ernest E., and Maher. 3,324,740.
Lewis, Walter E. 3,318,299.
Lewis, Walter E., and Chisholm. 3,348,023.
Libby, Henry T. 3,350,534.
Lindt, Stanley L. 3,304,447.
Lindt, Stanley L. 3,304,448.
Linkous, Clovis E. 3,311,764.
Linkous, Clovis E. 3,333,329.
Linkous, Clovis E. 3,333,330.
Linkous, Clovis E. 3,351,790.
Linkous, Clovis E. 3,353,251.
Lit, Harry B. 3,312,773.
Livingston, Orrin W. 3,319,153.
Lodder, Clifford K. 3,300,851.
Loncrini, Donald F. 3,355,427.
Loncrini, Donald F. 3,360,502.
Lord, Harold W. 3,323,013.
Lord, Harold W. 3,350,622.
Love, Pender L. 3,331,204.
Low, Frank D. 3,301,022.
Low, Frank D. 3,320,778.
Luborsky, Fred E., and Drummond. 3,332,425.
Lukens, George B., II. 3,325,633.
Lukens, George B., II. 3,344,260.
Lukes, Robert M. 3,296,198.
Lupinski, John H., and Kopple. 3,346,444.
Lustenader, Edward L. 3,332,401.
Lynch, Edward I. 3,311,701.
Lyons, Ernest H., Jr., and Dempsey. 3,351,541.
Macaulay, Angus J. 3,296,417.
Macaulay, Angus J. 3,327,700.
Macaulay, Robert W., Ekstedt, and Campbell. 3,307,354.
MacKenzie, John D. 3,320,043.
Macoicz, Edward L., and Fitzpatrick. 3,352,999.
Macoicz, Edward L., and Fitzpatrick. 3,353,001.
Macoicz, Edward L., and Fitzpatrick. 3,353,002.
Mains, Edward F. 3,359,394.
Mankoff, Lawrence L., and Nakata. 3,325,708.
Mapham, Neville W. 3,319,147.
Mapham, Neville W. 3,355,600.
Marfone, Patrick A., and Lengyel. 3,302,463.
Marsh, Mendole D. 3,332,064.
Martin, Robert L. 3,339,170.
Martiniak, Leonard J 3,347,250.
Martiniak, Leonard J. 3,356,431.
Martzioff, Francois D., and Bedford. 3,308,346.
Marx, Arthur J. 3,345,687.
Mattson, Rodney A. 3,334,228.
May, James J., and Winkowski. 3,322,885.
Mayer, Charles B. 3,323,004.
McAllister, Robert L. 3,334,494.
McBournie, Donald E., and Pfister. 3,325,339.
McCracken, Samuel T., Jr. 3,306,538.
McElligott, Peter E. 3,356,843.
McGowan, Edward J. 3,356,791.
McGrew, John M., Jr. 3,355,179.
McGrew, John M., Jr., and Fox. 3,339,670.
McHugh, James D. 3,324,970.
McNamara, John E. 3,352,775.
McNutt, William J., and Johnson. 3,349,357.
Mellyn, Lawrence P. 3,322,944.
Meng, John D. 3,309,587.
Merritt, Stanley Y. 3,317,815.
Met, Viktor O. 3,353,123.
Meta, Edwin J., and Gentry. 3,341,380.
Metzger, Matt F. 3,318,015.
Miekka, Richard G., Lyons, and Dempsey. 3,356,538.
Miles, John R. 3,296,923.
Milford, Richard E. 3,351,919.
Miller, Clarence J. 3,321,828.
Miller, Clarence J. 3,322,517.
Miller, Norval P., and Douglass. 3,310,666.
Miller, Richard H. 3,328,550.
Minnich, Stephen H., and Buchhold. 3,304,466.
Moneymaker, Elton G., and Muller. 3,334,381.
Mongesku, William O., and Richter. 3,313,587.
Mooneyhan, William R. 3,325,698.
Moore, Fred W. 3,331,384.
Moore, Harwood B. 3,296,372.
Moore, Harwood B., Hoag, and Osborn. 3,313,548.
Moore, Hugh S., and Daniels. 3,335,343.
Morey, Everett D. 3,312,234.
Morey, Everett D. 3,320,777.
Morey, Everett D., and Duvall. 3,359,578.
Morgan, Raymond E. 3,308,397.
Morgan, Raymond E. 3,320,519.
Morgan, Raymond E. 3,348,123.
Morgan, Raymond E. 3,350,572.
Morgan, Raymond E. 3,353,085.
Morgan, Raymond E. 3,360,712.
Morgan, Raymond E., and Bedford. 3,353,032.

General Electric Co.: *See*—Continued
Morris, Herbert E. 3,335,351.
Morris, Herbert E. 3,344,328.
Morris, Herbert E. 3,360,705.
Moschetti, Donald J., Smith, and Ripplinger. 3,335,661.
Moyson, Joseph, and Petruzella. 3,331,000.
Moyson, Joseph, and Petruzella. 3,354,363.
Mundschenk, Glenn R. 3,298,350.
Mundschenk, Glenn R., and Scott. 3,355,702.
Murphy, Frank E. 3,309,479.
Murphy, Robert A. 3,296,199.
Murphy, Robert A. 3,341,486.
Musick, Victor S. 3,302,925.
Nace, John F. 3,304,906.
Nash, Dudley O., and Holden. 3,357,645.
Neal, Stanford, and Tomlinson. 3,340,014.
Nelesen, Elmer J. 3,347,167.
Neugebauer, Constantine A. 3,328,200.
Neugebauer, Constantine A., and Rairden. 3,325,307.
Neusbaum, Frank A. 3,305,697.
Newhouse, Vernon L., and Edwards. 3,359,545.
Ney, Robert J. 3,335,310.
Niedrach, Leonard W. 3,297,484.
Nichols, Frank S., and Steele. 3,352,711.
Niclas, Karl B. 3,334,264.
Niles, Donald M. 3,311,196.
Noble, Milton L. 3,357,299.
Nowell, John R. 3,302,034.
Noyes, LeRoy C. 3,311,303.
Nuckolls, Joe A. 3,317,789.
Nuckolls, Joe A. 3,328,673.
Nuckolls, Joe A. 3,334,270.
Nuckolls, Joe A. 3,344,310.
Nuckolls, Joe A. 3,344,311.
Nuckolls, Joe A. 3,353,062.
Ogburn, Robert D. 3,324,273.
Ogden, Harold S. 3,317,802.
O'Hern, James V., and Schindler. 3,325,750.
Olashaw, William F. 3,346,776.
Olashaw, William F. 3,349,291.
Oliver, Curtis S. 3,301,780.
O'Neil, Franklin H. 3,302,072.
O'Neill, Clifford F., and Corsaro. 3,325,667.
Oppel, John A., and Ward. 3,333,071.
Osteen, Mitchell M. 3,309,220.
Otto, Charles W. 3,320,660.
Otto, Charles W. 3,350,586.
Owen, Henry E. S. 3,313,898.
Padgett, Cooper J. 3,345,102.
Paige, Hilliard W. 3,359,407.
Painter, Delbert J. 3,301,023.
Palmer, Alfred L., and Anderson. 3,324,824.
Palmer, Ansell W. 3,328,732.
Paradise, Francis J., and Hull. 3,339,364.
Parsons, John M., and Grunwald. 3,340,563.
Parsons, Robert H. 3,305,614.
Patsch, Glenn F. 3,346,768.
Pattison, Wesley S. 3,310,354.
Pattison, Wesley S. 3,311,072.
Pattison, Wesley S., and Lindstrom. 3,325,235.
Payton, Don E., and Pattison. 3,322,479.
Peaslee, Lawrence R. 3,350,568.
Peaslee, Lawrence R., and Caldwell. Re. 26,327.
Peek, John E., and White. 3,317,793.
Peek, Nelson A. 3,307,068.
Perlowski, Edward F., Jr. 3,308,599.
Perlowski, Edward F., Jr. 3,317,664.
Perlowski, Edward F., Jr. 3,317,665.
Petelinkar, Richard A. 3,359,186.
Peternel, Jacob R. 3,340,883.
Pezdek, Alexander J. 3,333,685.
Pfeifer, Charles W. 3,313,762.
Phillips, Robert M., and Van Hoven. 3,343,781.
Pine, Buddie J. 3,351,913.
Pistey, John M. 3,324,447.
Pistey, John M. 3,337,837.
Pistey, John M. 3,351,883.
Pistey, John M. 3,351,884.
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Plescia, Joseph J. 3,346,714.
Polinko, George, Jr., and Porter. 3,345,484.
Pollock, Herbert C. 3,359,422.
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Powell, David B. 3,311,724.
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Prener, Jerome S., and Kingsley. 3,305,486.
Prescott, Paul I., and Selin. 3,317,578.
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Pressley, Robert C., Jr. 3,303,934.
Price, Paul B., and Walker. 3,303,085.
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Rayno, Glenn D., Grahame, and Paul. 3,299,333.
Rediger, Alvin L., and Slager. 3,330,031.
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Reynolds, Luther W. 3,345,989.
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Rice, James. 3,339,393.
Rich, Theodore A. 3,330,960.
Rich, Theodore A. 3,351,759.
Riesland, David H. 3,360,687.
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Robb, Walter L. 3,325,330.
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Robb, Walter L. 3,351,208.
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Robbins, Floyd B. 3,307,152.
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Roecks, Carl C., Jr., and Peterson. 3,331,563.
Romano, Frank A., Jr., and Nicklas. 3,341,657.
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Ruth, Richard L. 3,315,234.
Rutledge, William A., and Clarkson. 3,350,588.
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Ryckman, William D., Jr. 3,312,802.
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St. Pierre, Philippe D. S. 3,327,027.
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Saldi, Ideal T. 3,321,655.
Sandin, Raymond C. 3,313,065.
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Shaw, Lyle F. 3,331,215.
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Thompson, Kenneth R. 3,330,142.
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Wilcock, Donald F. 3,338,643.
Wilder, Donald L. 3,349,251.
Wiley, Emmett H. 3,314,331.
Wiley, Emmett H. 3,325,679.
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Wilk, Stanley H. 3,344,229.
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Winn, Oliver H. 3,308,457.
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Wolfram, Adolf E. 3,333,200.
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Wood, David L. 3,350,554.
Woodbury, Henry J. 3,300,671.
Woodward, Stewart A. 3,299,223.
Woodward, Stewart A. 3,322,908.
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Worst, Joseph C. 3,309,783.
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Wright, Floyd H. 3,307,093.
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Mancuso, John J. 3,340,068.
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Fortney, Maurice W. 3,304,185.
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Hasten, Mark, and Haub. 3,321,146.
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Kamal, Marwan R. 3,346,517.
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Kreevoy, Maurice M., and McCaleb. 3,341,305.
McKown, William L., and Ball. 3,322,073.
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Alspaugh, Samuel W. 3,333,447.
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Attwood, William S., and Tree. 3,301,161.
Aurelia, John R., and Schultz. 3,310,137.
Baer, Donald G., Van Slyke, and Woofter. 3,322,882.
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Bailey, Charles S. 3,334,812.
Bailey, Keith A., Black, and Fisher. 3,313,183.
Baker, Arthur R. 3,343,765.
Baker, Marshall W., and Beatenbough. 3,314,248.
Baker, Von D., Castle, Mar, and Thompson. 3,333,818.
Barton, Edward D., and Tucker. 3,306,339.
Bartz, Otto H. 3,353,872.
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Bassett, Arthur T., Jr., and Siegla. 3,348,025.
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Bassett, Norman W. 3,306,994.
Bauer, Richard J., and Gass. 3,302,534.
Bauman, Robert H. 3,295,638.
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Bauman, Robert H. 3,322,238.
Bauman, Robert H., Bratten, and Meixell. 3,357,527.
Beam, Paul E., Jr. 3,302,694.
Beam, Paul E., Jr. 3,304,008.
Beam, Paul E., Jr. 3,355,883.
Beary, Charles R. 3,310,616.
Beatenbough, Paul K. 3,353,745.
Beatenbough, Paul K., and Baker. 3,352,125.
Beaty, Allen E. 3,305,773.
Beck, George W., Kniffin, and Hillberry. 3,298,189.
Beinke, Randall E. 3,301,008.
Beirise, George P. 3,303,908.
Bemmann, Richard W., and Schultz. 3,344,513.
Benasutti, Louis D., and Saunders. 3,324,679.
Bennett, Ronald W. 3,312,310.
Bernard, James A. 3,325,760.
Betz, Milton G., Shank, and Snyder. 3,314,196.
Beveridge, Thomas R., and Snyder. 3,339,664.
Bevers, Eugene J. 3,332,232.
Bevers, Eugene J. 3,342,031.
Blatt, Rudolph W., and Froberger. 3,346,713.
Blazey, Sidney H. 3,306,094.
Blinder, William. 3,332,277.
Blonn, George W., Sr. 3,311,318.
Blum, Jack E., and Ezell. 3,349,275.
Boehm, Benjamin F. 3,355,966.
Boland, Leonard A. 3,319,998.
Borman, August H., Jr. 3,308,687.
Braden, Ralph S. 3,323,543.
Bradley, Arthur W., and Smith. 3,357,522.
General Motors Corp.: *See*—Continued
Brandes, Roy H. 3,355,881.
Bratten, Thomas A. 3,303,751.
Brennan, William E., Halliday, and Pitts. 3,311,405.
Brentrup, Robert C. 3,339,010.
Brewer, Lee M., and Rohde. 3,343,782.
Brewer, Lee M., and Rohde. 3,356,292.
Brewer, Lee M., Rohde, and Thompson. 3,315,570.
Brissette, Lawrence P. 3,345,839.
Brissette, Lawrence P., and Leslie. 3,328,918.
Brown, Doyle E. 3,339,226.
Brown, Norman R. 3,347,127.
Brown, William E., and Shaw. 3,356,807.
Brubaker, Richard M. and R. F., and Stutrud. 3,305,-093.
Brucken, Byron L. 3,321,940.
Brucken, Byron L. 3,333,346.
Brucken, Byron L., and Cassady. 3,314,385.
Brucken, Byron L., and Deaton. 3,328,983.
Brunner, Richard J. 3,306,592.
Bryant, Leland W., Sharpe, and Swingle. 3,319,418.
Brynn, Gerald E. 3,321,238.
Bubniak, William C. 3,298,428.
Bubniak, William C. 3,298,429.
Buchwald, Robert M. 3,310,995.
Buchwald, Robert M. 3,335,621.
Buckman, Kenneth E. 3,321,220.
Buell, Hanry R., and Jenkins. 3,299,276.
Bullock, Norman J. 3,306,084.
Burke, Harold J. 3,308,906.
Burnell, John B. 3,354,873.
Burroughs, William W., Jr. 3,330,520.
Busch, Donald G., Covert, and Hawkins. 3,359,829.
Butts, Mervin R. 3,356,293.
Butts, Mervin R., and Tucker. 3,295,753.
Camp, John D., and Aldikacti. 3,338,113.
Campbell, David D. 3,330,199.
Campbell, Robert W., Sawyer, Ruff, Kirk, Ramey, and Worrell. 3,297,926.
Campbell, Robert W., Sawyer, Ruff, Kirk, Ramey, and Worrell. 3,320,565.
Canaday, Joe R. 3,335,243.
Canaday, Joe R. 3,339,036.
Candelise, Alfred. 3,301,242.
Candelise, Alfred. 3,340,520.
Cantleberry, Donald R. 3,342,080.
Caramanna, George. 3,348,877.
Carlson, Donald W., and Cox. 3,299,475.
Carlson, Richard A. 3,316,416.
Carothers, Frank S., Jr. 3,333,259.
Carpenter, Arthur J., and Kaptur. 3,299,571.
Carson, William D., and Paul. 3,313,033.
Carson, William D., Paul, Wilkins, and Smith. 3,314,158.
Casassa, Joseph P. 3,359,918.
Cassel, Thomas R. 3,348,629.
Cassel, Thomas R., and Redding. 3,336,056.
Castellana, Jack P. 3,299,734.
Castle, William S. 3,302,924.
Castle, William S. 3,305,166.
Castle, William S., Mar, and Thompson. 3,316,717.
Castle, William S., Mar, and Thompson. 3,338,508.
Castle, William S., Thompson, and Mar. 3,320,749.
Cataldo, Roy S. 3,338,328.
Cataldo, Roy S. 3,359,719.
Champion, Richard H. 3,338,624.
Chana, Howard E. 3,353,637.
Chana, Howard E. 3,353,641.
Chana, Howard E., Chapman, and Walker. 3,360,069.
Chapman, Charles S., Jr., and Walker. 3,359,827.
Chapman, Dennis C., Johnson, and Sgroi. 3,295,827.
Christen, Eugene W. 3,321,245.
Christenson, Howard W. 3,303,726.
Christenson, Howard W., Mabley, and Fisher. 3,319,746.
Christenson, Howard W., Mabley, and Fisher. 3,338,358.
Christenson, Howard W., Mooney, and Schaefer. 3,302,-390.
Christenson, Howard W., Mooney, and Schaefer. 3,324,-797.
Christenson, Howard W., and Schaefer. 3,320,107.
Christenson, Howard W., and Schaefer. 3,331,480.
Christenson, Jack D. 3,322,185.
Clapp, Samuel A., and Snyder. 3,318,174.
Clark, Harold E., and Wolf. 3,327,541.
Clark, James P. 3,338,226.
Clark, Norman R. 3,319,144.
Close, Albert R., and Klove. 3,343,228.
Colautti, Albert J., and Sandor. 3,313,512.
Colautti, Albert J., and Sandor. 3,346,297.
Colautti, Albert J., and Suszko. 3,357,084.
Collins, Larry L. 3,349,281.
Copp, Carl A., Jr. 3,309,889.
Corbin, Ralph L., Kruger, and Badgley. 3,329,559.
Corbin, Russel G. 3,332,541.
Cornillaud, Jack T. 3,309,966.
Cornilland, Jack T. 3,338,360.
Corry, Thomas M., and Johnston. 3,354,370.
Costello, Robert B., and Robertson. 3,298,222.
Cote, Thomas P., and Nash. 3,327,803.
Couch, Harry J., and Kinkead. 3,343,867.
Covert, Calvin C. 3,301,330.
Cramer, Frank N. 3,304,120.
Creager, John E. 3,319,888.
Curtindale, Edward G. 3,309,663.

General Motors Corp.: *See*—Continued
Damon, Wayne E. 3,299,321.
Davidson, Jack M. 3,342,082.
Dean, Ralph Jr. 3,346,082.
Dean, Walter C., II. 3,357,210.
Deaton, Homer W. 3,339,054.
Deaton, Homer W., and Hutchinson. 3,342,961.
De Claire, James H., and Tanaka. 3,321,226.
De Claire, James H., and Tanaka. 3,332,713.
De Lorean, John Z. 3,319,598.
De Lorean, John Z., Hulten, and Waara. 3,338,229.
DeMastry, Anthony J., and Guggenaster. 3,296,694.
Dennis, David S. 3,356,081.
De Vincent, Patsy. 3,332,657.
Dobb, John A. 3,346,078.
Downing, Noel L., and Steinmetz. 3,309,868.
Drablik, Walter. 3,340,413.
Draplin, Thomas E. 3,338,007.
Drown, Herbert D. 3,356,396.
Duerr, Bruno. 3,352,104.
Dully, Floyd I. 3,317,248.
Dully, Floyd I., and Maletzke. 3,348,885.
Duncan, John M., Sprague, and Decker. 3,303,471.
Dupler, William W. 3,330,041.
Dutton, Harold R., and Ellers. 3,313,536.
Dye, Duane K., and Rohde. 3,301,011.
Earnhart, Robert L. 3,305,772.
Eddy, David W., and Lake. 3,327,858.
Edwards, George A. 3,356,424.
Egan, Gerald H., Smith, and Thompson. 3,308,512.
Egbert, Earl L. 3,314,307.
Ellers, Mark A., and Bramley. 3,347,074.
Elbert, Thomas E. 3,319,473.
Elbert, Thomas E., and Archibald. 3,326,053.
Elliott, James O. 3,340,449.
Ezop, L. Eugene. 3,346,176.
Falver, Kenneth E., and Watt. 3,322,471.
Falcone, Francesco H., Jubelt, and Stanner. 3,321,607.
Falge, John H., and Huntzinger. 3,328,614.
Faulkner, Alfred H., and Markowitz. 3,346,847.
Fayram, David L. 3,343,168.
Fayram, David L. 3,344,427.
Ferguson, Millard A. 3,321,946.
Ferguson, Millard A. 3,344,255.
Ferrara, Rudolph A. 3,313,571.
Ferrara, Rudolph A. 3,321,242.
Ferrara, Rudolph A. 3,321,243.
Ferrara, Rudolph A. 3,343,875.
Fisher, George A. 3,337,974.
Fleck, Francis C., Forester, and Morris. 3,295,627.
Flitz, John L. 3,302,250.
Fogt, Thomas H., and Brinkman. 3,344,625.
Foote, Charles L., Jr., Knowlton, and Batterson. 3,336,962.
Foran, David J., Jr. 3,297,891.
Forbush, Lothrop M. 3,321,199.
Forbush, Lothrop M. 3,322,235.
Forbush, Lothrop M. 3,355,218.
Forward, Robert W. 3,334,410.
Fosler, John R., and Sharpe. 3,314,237.
Frazier, Richard D., and Dafler. 3,300,666.
Frei, Arthur J., Sr. 3,306,567.
Frei, Arthur J., Sr., and Merica. 3,355,138.
Freiberger, Ronald D. 3,333,770.
Fryer, Edward R. 3,300,882.
Fuqua, Lloyd T. 3,313,077.
Fuqua, Lloyd T. 3,321,994.
Fuqua, Lloyd T. 3,322,911.
Gambill, Charles C. 3,299,346.
Gambill, Charles C. 3,305,766.
Gambill, Charles C. 3,328,662.
Gambill, Charles C., and Gaugler. 3,320,384.
Garvey, Louis P. 3,310,929.
Garvey, Louis P. 3,333,363.
Gaubatz, Arthur W. 3,318,532.
Gaugler, Richard S., and Siegla. 3,316,390.
Geller, Rodger E. 3,321,995.
Genord, Donald R., and Leslie. 3,357,134.
Gershen, Bernard J. 3,297,910.
Gershen, Bernard J. 3,317,817.
Gerstung, George W. 3,341,925.
Gionet, Edmond R. 3,351,976.
Gionet, Edmond R., and Liem. 3,325,239.
Gold, John, and Toschkoff. 3,304,880.
Gondert, Theodore R. 3,332,509.
Gonyea, Harold P. 3,347,392.
Gonyea, Harold P. 3,358,134.
Gooderum, Reuben C. 3,300,179.
Gorsky, Rudolph J. 3,313,897.
Goslin, Gerald E. 3,319,909.
Gosma, John W. 3,354,541.
Grabow, Gale R. 3,299,420.
Grabowski, Leonard R. 3,302,477.
Grabowski, Leonard R., and Rowland. 3,360,308.
Graham, Robert W. 3,302,532.
Graney, Paul L., and Hansen. 3,314,673.
Griffin, Henry W. 3,342,525.
Grimm, Robert A. 3,336,519.
Grimm, Robert A., and Johnson. 3,321,754.
Groves, Ronald C. 3,295,388.
Grundman, Richard G. 3,310,240.
Gulette, Ronald S., and Legge. 3,313,136.

General Motors Corp.: *See*—Continued
Gumbleton, James J. 3,296,647.
Guyton, James H., and Jenkins. 3,355,624.
Haas, Peter S. 3,321,734.
Hagler, Norman R. 3,306,214.
Hall, Beuford C., Jr. 3,295,825.
Hall, Harry D., Salatin, Sutherland, and Trible. 3,344,848.
Hall, Walter B., Jr. 3,305,162.
Hancock, James L. 3,328,544.
Hanifan, William A. 3,360,322.
Hanink, Dean K. 3,339,269.
Hanley, George P. 3,301,238.
Hanson, Robert S. 3,359,750.
Harned, John L., and Higbley. 3,301,608.
Harned, John L., and Zahm. 3,338,637.
Harness, Gerald A., and Kellogg. 3,327,479.
Harvey, Douglas J. 3,355,284.
Harvey, Douglas J. 3,355,285.
Hause, Gilbert K. 3,323,389.
Hause, Gilbert K., and Smith. 3,303,911.
Hayden, John R. 3,313,344.
Heath, Thomas C. 3,305,774.
Heiny, Arza D. 3,339,096.
Helton, Vernon R. 3,330,049.
Helvern, James O. 3,354,641.
Herman, Stanley W. 3,308,683.
Hermann, Donald W. 3,323,578.
Herr, Leroy E. 3,356,176.
Hetzler, Lewis R. 3,332,003.
Hewko, Lubomyr O. 3,327,566.
Hiatt, Arthur B., and Koch. 3,360,310.
Hickling, Robert, and Kent. 3,318,293.
Highley, Frank H. 3,312,509.
Hile, John W., and McKinnon. 3,355,371.
Hitzelberger, Alan. 3,348,417.
Hodgson, Robert D. 3,318,280.
Homfeld, Max F., and Mick. 3,320,938.
Hook, Gerald E., and Sobey. 3,307,131.
Hopkins, Joseph H. 3,305,254.
Hornaday, James R. 3,355,178.
Horvath, Robert A. 3,311,423.
Hulten, Richard E. 3,352,293.
Hunt, Peter F. 3,323,836.
Huntzinger, Gerald O. 3,312,936.
Huntzinger, Gerald O. 3,316,446.
Huntzinger, Gerald O. 3,357,415.
Huntzinger, Gerald O. 3,357,416.
Huntzinger, Gerald O., and Tarter. 3,320,939.
Husko, Walno L., and Lystad. 3,323,830.
Ivers, Richard J. 3,352,608.
Jackson, George W. 3,331,616.
Jackson, George W. 3,339,910.
Jackson, George W., and Long. 3,332,708.
Jacobs, James W. 3,299,524.
Jacobs, James W. 3,302,795.
Jacobs, James W. 3,309,888.
Jacobs, James W. 3,321,655.
Jacobs, James W. 3,326,787.
Jacobs, James W. 3,330,939.
Jacobs, James W. 3,331,227.
Jacobs, James W., and Brucken. 3,331,141.
Jacoby, Gerald B. 3,357,182.
Jalbing, John I., and Myers. 3,346,760.
James, Kenneth F., and Joyce. 3,313,007.
Johnson, Douglas. 3,300,121.
Johnson, Douglas. 3,313,103.
Johnson, Douglas. 3,313,105.
Johnson, Douglas. 3,332,242.
Johnson, Douglas, and Young. 3,345,035.
Johnson, Kenneth O. 3,303,992.
Johnson, Kenneth O. 3,318,513.
Johnson, Marvin W., and Park. 3,345,946.
Johnson, Ralph H. 3,352,564.
Johnson, Roger W. 3,306,838.
Johnson, Roger W. 3,338,808.
Johnson, Wylie L., III. 3,318,644.
Johnston, William J. 3,330,985.
Johnston, William J. 3,331,033.
Johnstone, Theodore H. 3,304,755.
Johnstone, Theodore H. 3,347,584.
Johnstone, Theodore H., and Skillin. 3,339,665.
Juggins, Cyril E. 3,312,804.
Julian, Clarence L., and Young. 3,336,457.
Kanaan, Ziyad R. 3,308,763.
Katz, Seymour. 3,338,740.
Katz, Seymour. 3,338,741.
Katz, Seymour. 3,348,969.
Katz, Seymour, and Miller. 3,336,160.
Kauppila, James E., and Bockemuehl. 3,320,651.
Kell, Nathaniel B. 3,314,401.
Kell, Nathaniel B. 3,316,533.
Kell, Nathaniel B. 3,326,455.
Keller, Robert C. 3,315,537.
Kellogg, George E. 3,298,177.
Kellogg, George E. 3,352,315.
Kellogg, George E., and Harness. 3,306,043.
Kelly, Kent B. 3,311,412.
Kesling, Keith K. 3,334,954.
Kesling, Keith K. 3,338,451.
Kesten, Patrick N., and Schwartzwalder. 3,328,621.
Kiefer, Edwin. 3,311,199.
Kilgore, Harry A., and Smith. 3,345,098.

General Motors Corp.: *See*—Continued
Kimberlin, Dan R., and Stearns. 3,310,993.
King, Kenneth K., and Marquis. 3,304,745.
Kirk, Robert E., and Lubert. 3,310,772.
Kirk, Thomas E., and Raver. 3,343,059.
Kitchen, Elwyn L., Lee, and Rise. 3,344,865.
Klees, Gerard T. 3,323,305.
Klein, Lee F. 3,308,957.
Kniffin, Walter G. 3,308,631.
Kobrehel, Peter M. 3,353,229.
Kocl, Ludvik F. 3,313,244.
Kokochak, David G., and Gumbleton. 3,319,754.
Konopa, Richard L. 3,355,623.
Kopich, Leonard F. 3,305,253.
Krautwurst, Homer V., and Crumb. 3,356,826.
Kroell, Charles K., and Siegrist. 3,339,674.
Kusch, Bernard J., Spridco, and Turner. 3,360,660.
La Flame, Frank E. 3,319,640.
La Flame, Frank E. 3,324,796.
La Flame, Frank E. 3,333,742.
La Flame, Frank E. 3,348,775.
Lander, Arthur V., Scott, and Beechey. 3,302,820.
Larsen, Hugh W. 3,296,887.
Larsen, Hugh W., and Talaski. 3,331,239.
Lash, Joseph F. 3,319,470.
Lautzenhiser, Argyle G., and Clark. 3,344,676.
Lawless, Norman D., Grooms, and Racine. 3,329,893.
Leach, Clayton B. 3,302,628.
Leonard, Thomas R. 3,354,988.
Leslie, Kenneth G., and Zeisloft. 3,353,620.
Levy, Irving M. 3,335,307.
Lewis, Edward F. 3,306,177.
Licata, Joseph P., and Tucker. 3,349,307.
Liem, Robert C. 3,323,829.
Lindgren, Milton F., and Peterson. 3,352,178.
Livezey, William G. 3,331,476.
Lohr, Thomas E., and Meland. 3,332,169.
Long, Donald A., Shaw, and Carlson. 3,348,011.
Long, George B. 3,304,401.
Long, George B. 3,329,795.
Long, George B. 3,346,472.
Long, Paul J., Jr. 3,332,677.
Luedemann, Clarence F. 3,319,707.
Lull, William R. 3,301,530.
Lystad, Leonard A. 3,354,582.
Lystad, Leonard A., and Roberts. 3,319,487.
MacDonald, Norman L. 3,322,470.
Macl, Raymond J., and Rowland. 3,333,483.
MacIver, Bernard A., and Bergstrom. 3,339,272.
MacKenzie, Robert P., and Worrell. 3,314,060.
Mackie, Harry A. 3,357,511.
Mackie, Harry A., and Veryzer. 3,321,038.
Mallk, Marvin J. 3,296,808.
Maltby, Raymond W. 3,344,667.
Mann, Leonard J., and Hanson. 3,316,729.
Manoni, Arthur P. 3,316,431.
Mao, Tzu J. 3,331,761.
Mao, Tzu J. 3,352,772.
Mao, Tzu J. 3,359,129.
Martin, John C., and Alexander. 3,327,094.
Mason, George W. 3,301,316.
Massoll, Richard E. 3,331,034.
Mathues, Thomas O., and Kniffin. 3,320,759.
Mattarella, Samuel P. 3,345,532.
Maursey, Ethan K. 3,302,430.
McCarthy, William E. 3,296,833.
McCormick, Hamilton L. 3,314,650.
McCreary, Charles H. 3,342,170.
McCreary, Charles H. 3,360,275.
McDougal, John A. 3,332,476.
McDowall, Charles J. 3,339,405.
McDowall, Charles J., and Peterson. 3,295,801.
McEwen, John C. 3,301,101.
McMaster, Wardley D. 3,309,821.
McQueen, Norman. 3,332,233.
Mekkes, Lee T. 3,336,062.
Melinat, Wolfgang. 3,308,620.
Mick, Stanley H. 3,314,663.
Mick, Stanley H. 3,342,462.
Mick, Stanley H. 3,342,464.
Miller, James L. 3,333,345.
Miller, Robert F., and Lund. 3,320,505.
Miller, Tom B. 3,338,455.
Mitchell, Boris J., Bielicki, and Roche. 3,320,940.
Mitchell, George E. 3,305,722.
Mitchell, George E. 3,331,362.
Mitchell, Harry R. 3,295,839.
Mondt, James R. 3,315,729.
Mooney, James J., Jr. 3,357,209.
Moorman, Cletus L. 3,330,439.
Moorman, Earl J., and Moody. 3,354,583.
Murphy, Joseph E. 3,303,386.
Myers, John L. 3,324,372.
Naddell, Manuel. 3,312,302.
Naddell, Manuel. 3,342,475.
Nakolan, Andrew P. 3,300,248.
Nakolan, Andrew P. 3,306,552.
Nelson, Max V. 3,316,371.
Nelson, Robert E. 3,344,320.
Nesbitt, William R. 3,334,854.
Newill, Edward J., Beaty, English, and Heiny. 3,299,303.
Newman, Ralph P. 3,300,726.

General Motors Corp.: *See*—Continued
Nichols, Charles A., Joyce, Gardner, and Fletcher. 3,300,821.
Nickles, Lawrence H. 3,295,826.
Noll, James L. 3,334,853.
Nordsieck, Arnold T. 3,313,161.
North, Reginald H., Stafford, and Zimmerman. 3,332,518.
O'Connell, John J., and Mann. 3,309,892.
Olsen, Howard E., and Petry. 3,324,738.
Osborn, Don R., Jr. 3,296,898.
Packett, Marvin A., and Romanzi. 3,301,610.
Palkowsky, Glenn L. 3,334,617.
Pansing, Nelson J. 3,316,380.
Parker, George W., and Brennan. 3,344,388.
Parker, Leland C. 3,360,003.
Parr, Max O. 3,357,708.
Parsons, Peter P. 3,354,584.
Partlow, James A., Mewhinney, and Hoefling. 3,320,662.
Partlow, James A., Mewhinney, and Hoefling. 3,344,514.
Peeples, Denny L., and Kellogg. 3,343,564.
Percival, Worth H. 3,353,349.
Perna, Frank, Jr. 3,330,153.
Perry, Jack H., and Colling. 3,332,406.
Peters, Donald R. 3,339,401.
Peters, Theodore F. 3,312,314.
Peters, Theodore F. 3,312,491.
Peterson, Donald W. 3,333,241.
Peterson, Victor W. 3,295,646.
Peterson, Victor W. 3,300,004.
Petkwitz, Carl F., and Wurtz. 3,331,648.
Pietryka, Robert J. 3,303,063.
Pigeon, Dale W., and Upchurch. 3,353,868.
Pittsley, William D. 3,355,863.
Pittsley, William D. 3,359,960.
Plume, Robert W. 3,338,346.
Podwys, Stanley. 3,312,499.
Polhemus, Von D., Boettger, Isaacson, and Yew. 3,345,060.
Polhemus, Von D., Loomis, Klees, and Plume. 3,331,599.
Polhemus, Von D., and Yew. 3,321,200.
Pollak, Walter. 3,330,593.
Pollak, Walter, and McLean. 3,348,876.
Pollock, Samuel C. 3,357,338.
Powder, Paul F. 3,308,954.
Preotle, John J., and Payne. 3,347,728.
Priddy, Jack N. 3,355,801.
Prueter, Donald A. 3,327,551.
Qualman, Jack W., and Egbert. 3,300,971.
Quatredeniers, Claude. 3,319,024.
Quinn, Clark E. 3,339,676.
Quinting, Rudi F. 3,347,488.
Rademacher, Gustav F. 3,344,304.
Radloff, Carl R., and Sarafian. 3,305,652.
Rains, Sidney A., and Fisher. 3,330,170.
Rath, Gerald A. 3,299,342.
Rath, Gerald A., Templin, and Clayton. 3,319,733.
Raver, Louis J. 3,324,383.
Reddy, Virgin C. 3,335,710.
Reinke, James J., Rohde, and Thompson. 3,327,340.
Reinsch, Earl W., and McKee. 3,323,952.
Renger, Udo. 3,358,659.
Renneker, Dennis N. 3,347,592.
Reuther, Albert H. 3,333,530.
Reuther, Albert H. 3,333,531.
Reynolds, Richard L. 3,313,523.
Rice, Hal H., and Garey. 3,301,781.
Ridenour, Jack B. 3,353,636.
Riehl, Wilhelm. 3,331,601.
Rike, Richard C. 3,327,804.
Rise, William E. 3,298,241.
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Scheel, Jerold W. 3,318,406.
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Secunda, Kenneth. 3,346,476.
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Smith, Clayton L. 3,327,473.
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General, Norman T., S. Smalinskas, and R. P. Zundel, to Ford Motor Co. Multiple speed power transmission mechanism with non-synchronous ratio shift controllers. 3,354,752. 11–28–67, Cl. 74—763.

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Gerry, Martin E. Combination sound and slide projector. 3,340,632, 9–12–67, Cl. 40—28.1.

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Gilbert, James R., to Walker Mfg. Co. Retroverted flow muffler with longitudinal partitions. 3,353,628, 11-12-67, Cl. 181—53.
Gilbert, John A., to Unitek Corp. Welding circuit. 3,317,703, 5-2-67, Cl. 219—111.
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Gilbos, Georges E., to Constructiewerkhuizen Gilbos P.V.B.A. Device for controlling the knots made by the knotter of cross-winding machines. 3,297,346, 1-10-67, Cl. 289—18.
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Mattingly, Denis A. E., and Gilchrist. 3,345,003.
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Gilchrist, Reginald S., to The Klinger Mfg. Co. Ltd. Manufacture of knitted garments. 3,344,621, 10-3-67, Cl. 66—175.

Gilchrist, Reginald S., to The Klinger Mfg. Co., Ltd. Apparatus for false twisting yarn. 3,345,811, 10-10-67, Cl. 57—77.45.

Gilchrist, Reginald S., to The Klinger Mfg. Co. Ltd. Apparatus relating to false twisting. 3,350,869, 11-7-67, Cl. 57—77.3.

Gilchrist, Reginald S., and D. A. E. Mattingly, to The Klinger Mfg. Co. Ltd. Methods and apparatus for crimping yarns. 3,355,872, 12-5-67, Cl. 57—157.

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Giles, Walter B., to General Electric Co. Method and apparatus for drag reduction. 3,303,811, 2-14-67, Cl. 114—67.

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Wood, Willis A., and Gilford. 3,344,702.

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Gilker, Clyde, to McGraw-Edison Co. Repeating circuit interrupters having sequence coordination. 3,319,125, 5-9-67, Cl. 317—22.

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Caldwell, John R., and Gilkey. 3,331,890.
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Gill, Richard M., to The Carborundum Co. Composition including a carbide and a boride and tool made thereof. 3,313,605, 4-11-67, Cl. 29—192.

Gill, Ronald Y., and G. A. Morel, to International Standard Electric Corp. Method of making coaxial cables. 3,306,793, 2-28-67, Cl. 156—54.

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Gillard, Rolf S., to United States of America, Army. Bridge type circuit for controlling the gain of a transistor amplifier. 3,311,840, 3-28-67, Cl. 330—29.

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Gille, Willis H., and R. I. Anderson, to Marquette Corp. Current control apparatus having phase controlled means for variably controlling the period of conduction. 3,308,340, 3-7-67, Cl. 315—205.

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Gillen, Raymond D., W. T. Knipe, W. McAdam, and N. E. Polster, to Leeds & Northrup Co. Recorder. 3,349,408, 10-24-67, Cl. 346—112.

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Gillespie, James F., to AMP, Inc. Insulation support and wire guide for an electrical connector. 3,356,987, 12-5-67, Cl. 339—223.

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Gillet, Charles C., to Vapor Corp. Bridge type static inverter. 3,325,719, 6-13-67, Cl. 321—45.

Gillet, Charles E., to Societe Anonyme dite, Societe de Constructions de Montbard. Rolling mill of the reducing type. 3,355,923, 12-5-67, Cl. 72—224.

Gillett, Glenn D., to United States of America, Navy. Circular polarization diversity data transmission system. 3,311,829, 3-28-67, Cl. 325—56.

Gillett, Robert L., to Sylvania Electric Products Inc. FM stereo indicator circuitry. 3,345,464, 10-3-67, Cl. 179—15.

Gillette, Allen K., to Starline, Inc. Animal feeding system with reversing auger. 3,339,530, 9-5-67, Cl. 119—56.

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Gillham, Helen C., and A. E. Sherr, to American Cyanamid Co. Thermoplastic resins containing phosphonium salts as flame-retardant agents. 3,309,425, 3-14-67, Cl. 260—893.

Gillham, Helen C., and A. E. Sherr, to American Cyanamid Co. Vinyl resins containing diphosphonium halides as flame-retardants. 3,322,861, 5-30-67, Cl. 260—893.

Gillham, Helen C., and A. E. Sherr, to American Cyanamid Co. Phosphine oxides as flame-retardant agents for thermoplastic products. 3,341,625, 9-12-67, Cl. 260—887.

Gillham, Helen C., and H. G. Klein, to American Cyanamid Co. Flame-retardant compositions containing organo-phosphonic acids. 3,345,432, 10-3-67, Cl. 260—887.

Gilliam, Clarence W., R. D. Smith, J. E. Wildridge, and R. W. Szypulski, to United States of America, Navy. Flare gun having quick disconnect coupling. 3,315,397, 4-25-67, Cl. 42—1.

Gilliam, James A., to Gil-Boy Enterprises, Inc. Minnow bucket. 3,348,330, 10-24-67, Cl. 43—57.

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Gillick, Laurance H., J. Menendez, K. Daugirdas, and W. Chan, to Vapor Corp. Automatic unloader for hopper cars. 3,295,704, 1-3-67, Cl. 214—58.

Gillick, Laurance H., A. P. Stikkers, and D. H. Hellmann, to Vapor Corp. Sill structure for vehicle. 3,330,200, 7-11-67, Cl. 98—13.

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Gilmore, Guy T. Insulation forming device. 3,332,459, 7-25-67, Cl. 143—85.

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Gimber, George A., and R. L. Shipman, to United States of America, Navy. Entrapped air flotation device. 3,328,750, 6-27-67, Cl. 340—2.

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Ginnette, Lewis F., R. A. Lampi, and J. A. Abbott, to FMC Corp. Dehydration of solids-bearing liquids. 3,309,779, 3-21-67, Cl. 34—5.

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Gionet, Edmond R., and R. C. Liem, to General Motors Corp. Operating mechanism for remotely controlled rearview mirror. 3,325,239, 6-13-67, Cl. 350—281.

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Given, Joseph H., to The Plastex Co. Die assembly. 3,321,805, 5-30-67, Cl. 18—14.

Given, Richard A., and M. B. Du Plessis, 30% to Imperial Oil Ltd., 30% to Atlantic Richfield Co., and 10% to Royalite Oil Co. Ltd. Process for separating oil from bituminous sand. 3,338,814, 8-29-67, Cl. 208—11.

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Gladrow, Elroy M., and W. J. Mattox, to Esso Research and Engineering Co. Synthetic zeolites. 3,329,628, 7-4-67, Cl. 252—453.

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Glaser, Hellmut I., to Owens-Corning Fiberglas Corp. Apparatus for processing heat-softenable mineral material. 3,334,981, 8–8–67, Cl. 65—12.

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Glasgow, Clarence O. High pressure light weight float. 3,306,106, 2–28–67, Cl. 73—322.5.

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Glass, Emmett F., to Sperry Rand Corp. Hay harvester. 3,300,953, 1–31–67, Cl. 56—23.

Glass, Emmett F., J. K. Hale, and R. P. Bernhardt, to Sperry Rand Corp. Hay harvesting machine. 3,309,850, 3–21–67, Cl. 56—1.

Glass, Emmett F., and J. K. Hale, to Sperry Rand Corp. Hay harvesting machine. 3,325,981, 6–20–67, Cl. 56—23.

Glass, Emmett F., and J. K. Hale, to Sperry Rand Corp. Wheel mounting. 3,326,614, 6–20–67, Cl. 308—189.

Glass, Floyd M., to United States of America, Atomic Energy Commission. Neutron monitor and burst detector. 3,303,343, 2–7–67, Cl. 250—83.1.

Glass, Kenneth E., to Allis-Chalmers Mfg. Co. Vortex pump. 3,322,070, 5–30–67, Cl. 103—103.

Glass, Kenneth E., to Allis-Chalmers Mfg. Co. Rotary pump. 3,339,490, 9–5–67, Cl. 103—103.

Glass Machinery Inc.: *See*—
Kinsley, Charles W. 3,329,492.

Glass, Marvin, & Associates: *See*—
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Glass, Marvin I., Ayala, and Barlow. 3,299,763.
Glass, Marvin I., and Barlow. 3,298,692.
Glass, Marvin I., Barlow, Kripak, and Stan. 3,295,848.
Glass, Marvin I., Barlow, and Stan. 3,304,650.
Glass, Marvin I., Disko, and McFarland. 3,352,054.
Glass, Marvin I., Disko, and Stan. 3,300,894.
Glass, Marvin I., Janiszewski, and Furuta. 3,347,548.
Glass, Marvin I., Janiszewski, and Verbickas. 3,300,891.
Glass, Marvin I., and Kripak. 3,339,536.
Glass, Marvin I., Larson, and Licitis. 3,318,600.
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Glass, Marvin I., and Meyer. 3,354,577.
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Glass, Marvin I., and Stan. 3,333,853.

Glass, Marvin, & Associates: *See*—Continued
Glass, Marvin I., Stan, Ancevicius, and Furuta. 3,339,921.
Glass, Marvin I., Stan, and Licitis. 3,334,903.
McFarland, Norman T., and Kripak. 3,306,192.

Glass, Marvin I., G. A. Barlow, L. Kripak, and H. Stan, to Marvin Glass & Associates. Mechanically actuated game for opposing players. 3,295,848, 1–3–67, Cl. 273—1.

Glass, Marvin I., and G. A. Barlow, to Marvin Glass & Associates. Game with action producing components. 3,298,692, 1–17–67, Cl. 273—134.

Glass, Marvin I., C. Ayala, and G. A. Barlow, to Marvin Glass & Associates. Music box. 3,299,762, 1–24–67, Cl. 84—95.

Glass, Marvin I., C. Ayala, and G. A. Barlow, to Marvin Glass & Associates. Music box. 3,299,763, 1–24–67, Cl. 84—95.

Glass, Marvin I., A. T. Janiszewski, and D. E. Verbickas, to Marvin Glass & Associates. Construction toy amusement device. 3,300,891, 1–31–67, Cl. 46—17.

Glass, Marvin I., H. Disko, and H. Stan, to Marvin Glass & Associates. Self-propelled toy boat. 3,300,894, 1–31–67, Cl. 46—244.

Glass, Marvin I., G. A. Barlow, and H. Stan, to Marvin Glass & Associates. Toy bomb. 3,304,650, 2–21–67, Cl. 46—177.

Glass, Marvin I., and H. Stan, to Marvin Glass & Associates. Game with missile throwing devices and gameboard dividing wall. 3,305,236, 2–21–67, Cl. 273—95.

Glass, Marvin I., B. C. Meyer, and N. T. McFarland, to Marvin Glass & Associates. Design kit. 3,313,044, 4–11–67, Cl. 35—56.

Glass, Marvin I., E. S. Larson, Jr., and G. Licitis, to Marvin Glass & Associates. Spinning top game. 3,318,600, 5–9–67, Cl. 273—115.

Glass, Marvin I., G. Licitis, and J. O. Spinello, to Marvin Glass & Associates. Game utilizing electric probe. 3,333,846, 8–1–67, Cl. 273—1.

Glass, Marvin I., and H. Stan, to Marvin Glass & Associates. Card game with random selecting device. 3,333,853, 8–1–67, Cl. 273—135.

Glass, Marvin I., H. Stan, and G. Licitis, to Marvin Glass & Associates. Game apparatus comprising a device for distinguishing between differently shaped cards. 3,334,903, 8–8–67, Cl. 273—134.

Glass, Marvin I., and L. Kripak, to Marvin Glass & Associates. Toy cannon with separable front and rear barrel sections. 3,339,536, 9–5–67, Cl. 124—29.

Glass, Marvin I., H. Stan, D. E. Ancevicius, and M. W. Furuta, to Marvin Glass & Associates. Reaction game. 3,339,921, 9–5–67, Cl. 273—1.

Glass, Marvin I., A. T. Janiszewski, and M. W. Furuta, to Marvin Glass & Associates. Game apparatus. 3,347,548, 10–17–67, Cl. 273—1.

Glass, Marvin, I., H. Disko, and N. T. McFarland, to Marvin Glass & Associates. 3,352,054, 11–14–67, Cl. 46—17.

Glass, Marvin I., and B. C. Meyer, to Marvin Glass & Associates. Motor operated simulated soldier and gun toy. 3,354,577, 11–28–67, Cl. 46—118.

Glass, Russell G., to Macomber, Inc. Automatic tilt table. 3,325,020, 6–13–67, Cl. 214—1.

Glass, Sidney. Two-piece stopper. 3,326,403, 6–20–67, Cl. 220—24.5.

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Glass, William B.: *See*—
Langridge, Arthur, Glass, Grimwood, and Hegarty. 3,354,003.

Glass, William H.: *See*—
Bridigum, Robert J., and Glass. 3,314,593.

Glasser, Ernest C., to Sun-Pak Products, Inc. Flameless heater, heating assembly and heating kit. 3,301,250, 1–31–67, Cl. 126—263.

Glasser, James R., to Motorola, Inc. Band limited frequency modulation system. 3,320,552, 5–16–67, Cl. 332—23.

Glasser, James R., to Motorola, Inc. Electronic circuit. 3,336,533, 8–15–67, Cl. 330—51.

Glasser, Leo G., R. J. Kanzler, and D. J. Troy, to E. I. du Pont de Nemours and Co. Method and apparatus for photometric analysis. 3,306,156, 2–28–67, Cl. 88—14.

Glassey, Eugene A., to Exactel Instrument Co. Blender for slurries and mixtures. 3,308,991, 3–14–67, Cl. 222—57.

Glassey, Eugene A., to Exactel Instrument Co. U-tube servoed manometer. 3,323,368, 6–6–67, Cl. 73—401.

Glassey, Eugene A., to Exactel Instrument Co. Barometer construction. 3,349,622, 10–31–67, Cl. 73—385.

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Glassman, Jacob A. Sanitary napkin. 3,343,543, 9–26–67, Cl. 128—290.

Glassman, Joel, G. F. Jonas, A. L. Bass, Jr., and S. H. Pate, to Genesco, Inc. Wrapped sole shoe. 3,354,487, 11–28–67, Cl. 12—142.

Glassman, Martin W. Staff-type base support. 3,302,909, 2–7–67, Cl. 248—44.

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Glasson, Cecil W., E. W. Goodspeed, and F. W. C. Jones, to Hooker Chemical Corp. Lubricating composition. 3,313,728, 4–11–67, Cl. 252—18.

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Henderson, Harold P. 3,334,772.
Shumaker, Wendell D., Lybarger, and Jordan. 3,316,382.

Glastra, Hendrik, to N.V. Maatschappy Voor Industriële Research en Ontwikkeling. Apparatus for cutting sheet material. 3,350,970, 11–7–67, Cl. 83—201.07.

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Burkam, John E., and Glatfelter. 3,298,443.

Glatfelter, P. H., Co.: *See*—
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Glatt, Gerald: *See*—
Brooks, Alvin, Glatt, Lehrer, and Silverman. 3,322,941.

Glatt, Werner, and H. Wiedmann; said Wiedmann assor. to said Werner. Quick drier for drying molten and pasty masses and for the production of powders and granulates in a hot or warm air stream. 3,315,371, 4–25–67, Cl. 34—82.

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Glaude, Leopold F. Milling machine attachment. 3,306,169, 2–28–67, Cl. 90—17.

Glaus, Bernhard, to Ulrich Steinmann, A.G., Ltd. Coating apparatus with tilting conveyor. 3,345,973, 10–10–67, Cl. 118—324.

Glaus, Virginia L. Fowl stand. 3,308,864, 3–14–67, Cl. 146—216.

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Glavan, Frank J. Storage container. 3,337,028, 8–22–67, Cl. 206—1.

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Brichard, Edgard, Lambert, and Malicheff. 3,316,078.
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Glavis, Frank J., W. J. Keighley, and T. H. Haag, to Rohm & Haas Co. Aqueous polymeric blends containing ureido monomer. 3,300,429, 1–24–67, Cl. 260—29.6.

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Ball, Stanley. 3,311,538.
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Elks, Joseph, May, and Weir. 3,312,591.
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Glaze, John W., Jr., to Autoboard Corp. Conveying mechanism for a stocking boarding apparatus. 3,312,332, 4–4–67, Cl. 198—181.

Glaze, John W., Jr., to Autoboard Corp. Hosiery form. 3,343,732, 9–26–67, Cl. 223—75.

Glazier, Walter H., and G. W. Smith, to Esso Production Research Co. System for processing seismic signals. 3,327,805, 6–27–67, Cl. 181—.5.

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Gleason, Gale R., Jr., and F. J. Ohlmacher, to Central Michigan University Board of Trustees. Method and apparatus for obtaining soil samples. 3,318,394, 5–9–67, Cl. 175—5.

Gleason, Thomas M., and L. G. Peck, to The Boeing Co. Hydraulic actuator. 3,295,420, 1–3–67, Cl. 91—216.

Gleason, William J., Jr., and C. W. Zies, to International Basic Economy Corp. Steam trap. 3,347,257, 10–17–67, Cl. 137—183.

Gleason Works, The: *See*—
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Beman, Earl R. 3,301,097.
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Ryan, Arthur B. 3,354,525.

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Gleeson, John D., Jr., and M. L. Miller, to Deere & Co. Tractor construction. 3,337,508, 12–12–67, Cl. 180—6.2.

Glegg, Keith C. M., to Canadian Marconi Co. Terrain clearance measuring system and method. 3,339,198, 8–29–67, Cl. 343—14.

Gleim, William K. T., to Universal Oil Products Co. Hydrorefining of petroleum crude oil and catalyst therefor. 3,297,589, 1–10–67, Cl. 252—439.

Gleim, William K. T., to Universal Oil Products Co. Noncatalytic crude oil hydrorefining process. 3,303,126, 2–7–67, Cl. 208—251.

Gleim, William K. T., to Universal Oil Products Co. Hydrorefining of petroleum crude oil with diimino molybdenum chloride and certain complexes thereof. 3,336,219, 8–15–67, Cl. 208—264.

Gleim, William K. T., and J. G. Gatsis, to University Oil Products Co. Hydrorefining of petroleum crude oil. 3,317,421, 5–2–67, Cl. 208—264.

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Glen, James: *See*—
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Glendenning, Don M., to The Locke Steel Chain Co. Chain. 3,325,991, 6–20–67, Cl. 59—35.

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Glenn, John H., and G. M. Brown, to Brown Mud Co. Soil treatment compositions comprising polymer salt, petroleum oil and carboxylic acid salt. 3,298,982, 1–17–67, Cl. 260—23.

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Glenn, Richard E., and E. G. Hood, to Martin-Marietta Corp. Method of joining bodies of polytetrafluoroethylene. 3,356,551, 12–5–67, Cl. 156—49.

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Glenn, William E., Jr., to General Electric Co. Electron beam focusing and deflection electrode system. 3,320,468, 5–16–67, Cl. 315—14.

Glenn, William E., Jr., to General Electric Co. Reliability information storage and readout utilizing a plurality of optical storage medium locations. 3,325,789, 6–13–67, Cl. 340—173.

Glenn, William E., Jr., to General Electric Co. Wide band optical recording and narrow band reproduction on a thermoplastic medium. 3,335,413, 8–8–67, Cl. 340—173.

Glenn, William E., Jr., to General Electric Co. Electron gun having a segmented control electrode. 3,358,174, 12–12–67, Cl. 313—83.

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Derfer, John M. 3,360,581.
Gibbons, Ambrose J., Jr. 3,307,973.
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Kane, Bernard J. 3,354,225.
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Shafer, William M., and Yurasko. 3,353,951.

Glidden, Robert L., to Kewanee Machinery & Conveyor Co. Means for axially adjusting a conical roller. 3,339,854, 9–5–67, Cl. 241—230.

Glikin, Paul E., to C.A.V., Ltd. Liquid fuel pumps for use with internal combustion engines. 3,319,616, 5–16–67, Cl. 123—139.

Glikin, Paul E., to C.A.V. Ltd. Liquid fuel pumping apparatus. 3,356,051, 12–5–67, Cl. 103—2.

Glindmeyer, Friedrich. Slide fastener. 3,337,928, 8–29–67, Cl. 24—205.1.

Glindmeyer, Friedrich, to William Prym-Werke K.G. Sliding clasp fastener. 3,359,604, 12–26–67, Cl. 24—205.1.

Glinski, John W., to Sylvania Electric Products Inc. Method of permanently recording on a magnetizable medium by abrading. 3,309,709, 3–14–67, Cl. 346—1.

Glintz, Georgia E. Cushion hair dryer with air diverter. 3,358,-382, 12–19–67, Cl. 34—99.

Glisson, Clyde E., and H. King, to Garan Inc. Garment hanger. 3,315,854, 4–25–67, Cl. 223—94.

Glista, Edward M., to United States Aircraft Corp. Electronic fuel control system for gas turbine engines. 3,320,-741, 5–23–67, Cl. 60—39.28.

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Glomb, Walter L., W. Janeff, and E. Imboldi, to National Aeronautics and Space Administration. Tracking receiver. 3,340,532, 9–5–67, Cl. 343—113.

Gloor, Byron T., to Atlas Kassenfabrik A.G. Door-operating apparatus. 3,349,559, 10–31–67, Cl. 60—62.5.

Gloor, Emil A. Tool for removing a rocker stud and for substituting a new one. 3,330,024, 7–11–67, Cl. 29—271.

Gloor, Urs, R. N. Goel, A. Langemann, and R. Ruegg, to Hoffmann-La Roche Inc. Preparation of hydroquinone derivatives. 3,349,113, 10–24–67, Cl. 260—476.

Gloor, Urs, R. Ruegg, and U. Schwieter, to Hoffmann-La Roche Inc. Chromans. 3,354,181, 11–21–67, Cl. 260—345.5.

Gloor, Wilbur T., to The Warner & Swasey Co. Testing machine having grip mechanism. 3,323,357, 6–6–67, Cl. 73—103.

Gloor, Wilbur T., to The Warner & Swasey Co. Tensile, compression, and flexure testing machine. 3,354,704, 11–28–67, Cl. 73—93.

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Glorioso, Paul A., to Gregory Industries, Inc. Safety circuit for drawn-arc, stud welding apparatus. 3,355,570, 11–28–67, Cl. 219—98.

Glos, Edmond A., II, to Mero & Co., Inc. Drum filter element attaching means. 3,353,675, 11–21–67, Cl. 210—238.

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Gloskey, Carl R., to M & T Chemicals Inc. Preparation of organotin-trihalides. 3,340,283, 9–5–67, Cl. 260—429.7.

Gloster Saro Ltd.: *See*—
Weston, Edward C., and Palfrey. 3,360,000.

Glötzl, Franz. Apparatus for measuring mechanical stresses and hydraulic pressures. 3,355,936, 12–5–67, Cl. 73—88.5.

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Schott, Charles M., Jr. 3,320,843.
Schott, Charles M., Jr. 3,322,604.

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Glover, Edward B., to Radiation Inc. Signal redundancy utilizing slope limiting lines. 3,311,909, 3–28–67, Cl. 340—345.

Glover Sheldon W., to Pacific-Western Materials, Inc. Descent control mechanism. 3,340,964, 9–12–67, Cl. 188—65.4.

Glover, Sidney T., to Imperial Chemical Industries Ltd. Electrolytic cell having vertically disposed electrodes. 3,354,-072, 11–21–67, Cl. 204—219.

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Godar, Richard L., to Petrolite Corp. Aromatic hydrocarbon inhibitor. 3,342,723, 9–19–67, Cl. 208—48.

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Goffe, William L., to Xerox Corp. Frost thermography. 3,338,710, 8–29–67, Cl. 96—1.1.
Goffe, William L., to Xerox Corp. Method of image reproduction by photopolymerization and blushing. 3,350,205, 10–31–67, Cl. 96—35.1.
Goffinet, Bernard: *See*—
Bucourt, Robert, Pierdet, Costerousse, Joly, Warnant, and Goffinet. 3,349,130.
Goffredo, Daniel L. Method for preparing plastic-backed electrotypes. 3,319,564, 5–16–67, Cl. 101—401.1.
Goforth, Richard L.: *See*—
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Gogan, Robert M., and G. T. Joly. Structure for leaching fields. 3,339,366, 9–5–67, Cl. 61—13.
Gogarty, William B., W. C. Tosch, and C. P. Coppel, to Marathon Oil Co. Miscible flood viscosity control through pH regulation. 3,297,084, 1–10–67, Cl. 166—9.
Gogarty, William B., and R. W. Olson, to Marathon Oil Co. Petroleum recovery materials and process. 3,301,325, 1–31–67, Cl. 166—9.
Gogarty, William B., C. P. Coppel, and G. W. Ditrick, to Marathon Oil Co. Method and apparatus relating to pipeline transport of fluids. 3,307,567, 3–7–67, Cl. 137—13.
Gogarty, William B., and R. W. Olson, to Marathon Oil Co. Protection of micellar systems in oil recovery. 3,343,597, 9–26–67, Cl. 166—9.
Gogerty, Henry L. Means for guiding movable wall panels. 3,343,205, 9–26–67, Cl. 16—106.
Goggins, Paul W. Steam generator. 3,313,275, 4–11–67, Cl. 122—156.
Gogia, Jugal K., W. L. Hinde, and K. Seldner, to TRW, Inc. Alternator load demand sequencing system. 3,300,647, 1–24–67, Cl. 290—30.
Gogliormella, Salvatore A.: *See*—
Balchunas, Charles A., and Gogliormella. 3,328,953.
Goheen, David W., to Crown Zellerbach Corp. Preparation of methyl mercaptan from waste pulping liquors. 3,326,980, 6–20–67, Cl. 260—609.
Gohlke, Wilhelm, and P. Geiling, to Alfred Teves Maschinenund Armaturenfabrik, K.G. Hydraulic control system. 3,326,087, 6–20–67, Cl. 91—275.
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Goings, Harford E. Car seat tray. 3,326,446, 6–20–67, Cl. 229—28.
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Zavasnik, Fredrick J., and Goins. 3,337,194.
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Goins, Robert R., to Phillips Petroleum Co. Annular crystal purification columns. 3,319,437, 5–16–67, Cl. 62—123.
Goltein, Karl, to Vickers Ltd. Gas recirculation systems. 3,358,683, 12–19–67, Cl. 128—204.
Golx, Jacques L. A.: *See*—
Godard, Pierre, and Golx. 3,342,645.
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Golano, Marc B. and L. B. 3,322,093.
Goland, Marc B. and L. B. Highway directional device. 3,322,093, 5–30–67, Cl. 116—63.
Golasz, Paul J. Elongated housing. 3,300,940, 1–31–67, Cl. 52—718.
Golata, John H., and R. J. Wilcox, to Motor Wheel Corp. Dual track brake. 3,338,342, 8–29–67, Cl. 188—78.
Golay, Buckel & Cie, S.A.: *See*—
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Favre, Robert. 3,339,133.
Golay, Fernand, to Minotaure S.a.r.l. Device for purifying a gaseous stream. 3,335,551, 8–15–67, Cl. 55—237.
Golay, Marcel J. E. Pneumatic water pump. 3,357,365, 12–12–67, Cl. 103—236.
Golben, Michael, and G. A. Mueller, to Union Carbide Corp. Method for preparing negative electrodes. 3,320,139, 5–16–67, Cl. 204—35.
Golben, Michael, and J. W. Pearson, to Minnesota Mining and Mfg. Co. Metal cleaning. 3,330,769, 7–11–67, Cl. 252—136.
Gold, Abe. Scooter. 3,309,104, 3–14–67, Cl. 280—87.04.
Gold, Charles M., to Yardney International Corp. Voltage control system for battery chargers and the like. 3,312,889, 4–4–67, Cl. 320—36.
Gold, Charles M. and E. Cooper, to Yardney International Corp. Pressure switch and apparatus incorporating same. 3,300,703, 1–24–67, Cl. 320—46.
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Luberoff, Benjamin J., and Gold. 3,314,996.
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Gold, David, to Parking Management, Inc. Coin collection box. 3,295,755, 1–3–67, Cl. 232—1.
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Gold, Harold and S. Drain device. 3,330,417, 7–11–67, Cl. 210—463.
Gold, Howard M. Vehicle battery power protection system including light switching means. 3,348,095, 10–17–67, Cl. 315—80.
Gold, John, and D. Toschkoff, to General Motors Corp. Pump and diaphragm plunger sub-assembly. 3,304,880, 2–21–67, Cl. 103—150.
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Gold, Marvin H., and H. J. Marcus, to Aerojet-General Corp. Polynitro halo compounds useful as antibiotics, fungicides and explosives. 3,359,334, 12–19–67, Cl. 260—633.
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Gold Medal Products Co.: *See*—
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Gold, Nathan, to Polaroid Corp. Color decoder using single synchronous demodulator. 3,358,077, 12–12–67, Cl. 178—5.4.
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Casavant, Donald D., Gold, and Sable. 3,313,627.
Chen, Richard J., and Gold. 3,330,196.
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Gold, Nicholas, and A. J. Sable, to Polaroid Corp. Photographic apparatus. 3,307,467, 3–7–67, Cl. 95—89.
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Fox, Leonard J., Stanley, and Gold. 3,336,149.
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Gold, William, and R. J. Kieber, to Stepan Fermentation Chemicals, Inc. Process for production of citric acid by fermentation. 3,326,774, 6–20–67, Cl. 195—36.
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Goldammer, Freeland R., and J. A. Gondek, to Sperry Rand Corp. Article storage equipment. 3,317,029, 5–2–67, Cl. 198—158
Goldammer, Freeland R., and R. E. Kanitz, to Sperry Rand Corp. Article storage apparatus. 3,345,117, 10–3–67, Cl. 312—223.
Goldann, Karl, and W. Stein, to Henkel & Cie. G.m.b.H. Storage stable fatty alcohol sulfates and method of manufacture. 3,305,577, 2–21–67, Cl. 260—459.
Goldbaum, Elliott, to Lehigh Valley Industries, Inc. Marker lamp adapted for mounting on an automotive vehicle, and connection into an electrical circuit, without the use of tools. 3,321,731, 5–23–67, Cl. 339—21.
Goldbaum, Elliott, V. Koljonen, and J. A. Feier, to Lehigh Valley Industries, Inc. Automotive vehicle lamp with snap-in lens. 3,321,618, 5–23–67, Cl. 240—8.2.
Goldbeck, Le Roy J., to Kimberly-Clark Corp. Coated polyolefin sheets particularly for book covers and method of producing the same. 3,345,196, 10–3–67, Cl. 117—11.
Goldberg, Abraham A., to Columbia Broadcasting System, Inc. Self-threading take-up reel. 3,312,407, 4–4–67, Cl. 242—55.12.
Goldberg, Albert I.: *See*—
Fertig, Joseph, Goldberg, and Skoultchi. 3,328,491.
Fertig, Joseph, Skoultchi, and Goldberg. 3,340,231.
Goldberg, Albert I., and V. Jasinski, to National Starch and Chemical Corp. N-methylol acrylamide-vinyl acetate copolymer emulsions containing polyvinyl alcohol. 3,301,809, 1–31–67, Cl. 260—29.6.
Goldberg, Albert I., J. Fertig, and M. Skoultchi, to National Starch and Chemical Corp. Ethylenically unsaturated derivatives of 2-hydroxy-4-methoxybenzophenone and polymers thereof. 3,317,462, 5–2–67, Cl. 260—47.
Goldberg, Albert I., and J. Fertig, to National Starch and Chemical Corp. Aromatic and aliphatic esters of hydroxy benzophenone derivatives. 3,322,817, 5–30–67, Cl. 260—475.
Goldberg, Albert I., M. Skoultchi, and J. Fertig, to National Starch and Chemical Corp. Polymers containing ethylenically unsaturated derivatives of ortho-hydroxy aromatics as reactive dye sites. 3,340,221, 9–5–67, Cl. 260—41.
Goldberg, Albert I., J. Fertig, and M. Skoultchi, to National Starch and Chemical Corp. Ethylenically unsaturated derivatives of 2,4-dihydroxybenzophenone. 3,341,493, 9–12–67, Cl. 260—47.
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Goldberg, Morris. 3,301,502.
Goldberg, Eugene P., and C. V. Von Linsowe, to Borg-Warner Corp. Vehicle tire. 3,348,597, 10–24–67, Cl. 152—323.
Goldberg, Eugene P., and F. Scardiglia, to Borg-Warner Corp. Thiocarbonate-carbonate copolymers. 3,359,238, 12–19–67, Cl. 260—47.
Goldberg, Gerald I., to United States of America, National Aeronautics and Space Administration. Reaction wheel scanner. 3,350,033, 10–31–67, Cl. 244—1.
Goldberg, Gershon M., and E. Hartouni, to Technical Operations, Inc. Sensitization of photographic media. 3,359,112, 12–19–67, Cl. 96—102.

Goldberg, Herbert, to American Optical Co. Apparatus for determining oxygen saturation of blood. 3,296,922, 1–10–67, Cl. 88—14.

Goldberg, Jacob, to Chu Lan Jen. Photoelectric vehicle identification system. 3,324,301, 6–6–67, Cl. 250—223.

Goldberg, Julius: *See*—
Taub, Jesse J., and Goldberg. 3,327,212.

Goldberg, Leo: *See*—
Abrahams, David H., and Goldberg. 3,309,341.

Goldberg, Leon J., to General Electric Co. Arcless interrupter. 3,309,570, 3–14–67, Cl. 317—11.

Goldberg, Morris, to Goldberg Bros., Inc. Automatic threading film reel. 3,301,501, 1–31–67, Cl. 242—74.

Goldberg, Morris, to Goldberg Bros., Inc. Automatic threading film reel. 3,301,502, 1–31–67, Cl. 242—74.

Goldberg, Morris I. Portable bassinet. 3,311,934, 4–4–67, Cl. 5—102.

Goldberg, Moses W., deceased (by R. H. Goldberg, executrix), L. M. Jampolsky, and R. W. Kierstead, to Hoffman-La Roche Inc. Novel polyhydrophenanthrene derivatives. 3,311,661, 3–28–67, Cl. 260—586.

Goldberg, Moses W., L. M. Jampolsky, and R. W. Kierstead, to Hoffmann-La Roche Inc. 7-methoxy-1,2,3,4,4a,9,10,10a-octahydraphenanthrene-2-acetyl - 1,2,3,4,4a,4b,5,6,10,10a - decahydraphenanthrene. 3,314,971, 4–18–67, Cl. 260—326.5.

Goldberg, Norman N., to E. Leitz Inc. Transmission mechanism for a roll film camera. 3,334,836, 8–8–67, Cl. 242—71.3.

Goldberg, Regina H.: *See*—
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Golde, Hans. Automotive vehicle. 3,333,889, 8–1–67, Cl. 296—137.

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Golden, Gerald, and C. V. Wrobel, Jr., to Excel Inc. Bicycle pedal construction. 3,302,483, 2–7–67, Cl. 74—594.4.

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Golden, Martin A., and J. I. Vlossak, to Ultra Plating Corp. Process and apparatus for making chromium coated papermaking wires. 3,346,466, 10–10–67, Cl. 204—24.

Golden, Martin P., to General Dynamics Corp. Forming apparatus. 3,338,080, 8–29–67, Cl. 72—56.

Golden, Martin P., and P. Wildi, to General Dynamics Corp. Forming apparatus. 3,345,843, 10–10–67, Cl. 72—56.

Golden, Richard L.: *See*—
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Golden, Robert L., to Robertshaw Controls Co. Latching means for an on-off member of a program controlling member or the like. 3,333,070, 7–25–67, Cl. 200—46.

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Goldenberg, Malvin H. Coupling end reinforcement for flexible conduit. 3,324,893, 6–13–67, Cl. 138—109.

Goldenberg, Rolf, and F. Ulrichs, to Maschinenfabrik Friedrich Hass G.m.b.H. & Co. Apparatus for ventilating webs of textile material. 3,302,304, 2–7–67, Cl. 34—159.

Goldberger Doll Mfg. Co., Inc.: *See*—
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Goldfarb, Adolph E. Cabinet. 3,298,764, 1–17–67, Cl. 312—204.

Goldfarb, Adolph E. Animated action toy. 3,358,998, 12–19–67, Cl. 273—95.

Goldfarb, Herman. Massaging garment with vibrators located in back and chest sections. 3,310,050, 3–21–67, Cl. 128—41.

Goldfarb, Herman. Bronchoscope having means for producing mechanical vibrations in the bronchial tract. 3,315,663, 4–25–67, Cl. 128—4.

Goldfisher, Lester I., to General Precision, Inc. Optical correlator. 3,296,920, 1–10–67, Cl. 88—1.

Goldhaber, Maurice, to United States of America, Atomic Energy Commission. Variable radiation length bubble chamber. 3,358,144, 12–12–67, Cl. 250—83.

Goldhammer, Jerome S., to Chicago Aerial Industries, Inc. Developer-processor for photographic web material. 3,349,687, 10–31–67, Cl. 95—94.

Goldhammer, Jerome S., W. L. Mohan, Jr., and H. A. Wayne, to Chicago Aerial Industries, Inc. Fiber optic scanning apparatus. 3,325,594, 6–13–67, Cl. 178—7.6.

Goldie, Harry, to United States of America, Thyratron type microwave switching apparatus. 3,323,003, 5–30–67, Cl. 315—39.

Golding, Frank E.: *See*—
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Golding, Fred E., to Aeon Industries, Inc. Walker with combination swiveling and bouncing casters. 3,337,230, 8–22–67, Cl. 280—87.03.

Golding Wave Clip Co., Inc.: *See*—
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Goldman, David A.: *See*—
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Goldman, David A. Remote meter reading system. 3,313,160, 4–11–67, Cl. 73—432.

Goldman, David A., and A. Zisselman, to General Precision, Inc. Data retrieval and display system. 3,332,071, 7–18–67, Cl. 340—172.5.

Goldman, Ervin H., and J. B. Humphries, to American Handle Sales Co. Bracket for handle. 3,343,634, 9–26–67, Cl. 190—58.

Goldman, George J.: *See*—
Herst, Leonard A. Kaplan, and Spangenberg. 3,345,627.

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Goldman, Mark H., E. V. Kapel, and L. E. Luda; said Kapel and said Luda assors. jointly of 1/6 to said Goldman. Lock for automobile seats. 3,322,461, 5–30–67, Cl. 297—379.

Goldman, Milton S. Rotary food dehydrating apparatus with tiltable tray means. 3,359,644, 12–26–67, Cl. 34—58.

Goldman, Richard L.: *See*—
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Goldman, Robert N., to Telecredit, Inc. Data recovery system wherein the data file and inquiries are in a prearranged order. 3,345,612, 10–3–67, Cl. 340—172.5.

Goldman, Robert N., and R. A. Katz, to Telecredit, Inc. Telephone verification system. 3,307,147, 2–28–67, Cl. 340—150.

Goldman, Rubin. Punch assembly. 3,299,761, 1–24–67, Cl. 83—639.

Goldman, Siegmund I. Manometer. 3,298,234, 1–17–67, Cl. 73—401.

Goldmark, Peter C., to Columbia Broadcasting Systems, Inc. Recording apparatus and medium with discrete level modulation. 3,354,264, 11–21–67, Cl. 178—5.4.

Goldmark, Peter C., and J. M. Hollywood, to Columbia Broadcasting System, Inc. Picture reproducing system having vertical synchronizing signal generation independent of horizontal scanning frequency. 3,333,058, 7–25–67, Cl. 178—7.2.

Goldmark, Peter C., and J. M. Hollywood, to Columbia Broadcasting System, Inc. Television picture and sound recording system. 3,335,219, 8–8–67, Cl. 178—6.7.

Goldmark, Peter C., and J. M. Hollywood, to Columbia Broadcasting System, Inc. Electrostatic data recording. 3,340,477, 9–5–67, Cl. 328—124.

Goldmerstein, Isaac. Cooling means for chairs. 3,295,886, 1–3–67, Cl. 297—180.

Goldmeyer, Clifford, and T. J. Dull, to The J. R. Greeno Co. High speed heat treating machine. 3,304,404, 2–14–67, Cl. 219—156.

Goldmeyer, Clifford, and T. J. Dull, to The J. R. Greeno Co. Helical wrapping mechanism for coil spring units. 3,316,944, 5–2–67, Cl. 140—92.3.

Goldmeyer, Clifford, and T. J. Dull, to The J. R. Greeno Co. Method of fabricating coil spring units. 3,348,583, 10–24–67, Cl. 140—92.4.

Goldreich, Paul, and F. T. Fetherston. Collapsible shipping-display unit. 3,314,549, 4–18–67, Cl. 211—132.

Goldryn, David, to Stratford Retreat House. Method of assembling an adjustment device for a trimmer capacitor. 3,332,139, 7–25–67, Cl. 29—436.

Goldsack, John S., to Babcock & Wilcox, Ltd. Tubulous support wall. 3,323,496, 6–6–67, Cl. 122—510.

Goldsberry, Paul E., and W. I. Lockett, to International Business Machines Corp. Accounting apparatus. 3,360,783, 12–26–67, Cl. 340—172.5.

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Goldsholl, Morton, to Eureka-Carlisle Co. Method and system for marking stamps. 3,325,189, 6–13–67, Cl. 283—62.

Goldsmith, Alan S., to Westinghouse Electric Corp. Amplifier circuit having separate and independent output and biasing paths. 3,351,866, 11–7–67, Cl. 330—15.

Goldsmith, Allen L.: *See*—
Hickman, Charles E., and Goldsmith. 3,345,726.

Goldsmith, Ave, to The Hale Co. Resilient valve seat. 3,329,398, 7–4–67, Cl. 251—306.

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Goldsmith, Fred C., to The Lubrizol Corp. Continuous process for reacting a basic group II metal compound and a phosphorus acid. 3,335,158, 8–8–67, Cl. 260—429.9.

Goldsmith, Harry, and R. F. Crawford, to United States Borax & Chemical Corp. Herbicidal 2-halobenzimidazoles. 3,317,304, 5–2–67, Cl. 71—2.5.

Goldsmith, Harry, and R. F. Crawford, to United States Borax & Chemical Corp. 2-isopropyl-5-(6)-chlorobenzimidazole. 3,317,554, 5–2–67, Cl. 260—309.2.

Goldsmith, Harry, and R. F. Crawford, to United States Borax & Chemical Corp. 5(6)-trifluoromethylbenzimidazole compounds. 3,317,555, 5–2–67, Cl. 260—309.2.

Goldsmith, Harry, and R. F. Crawford, to United States Borax & Chemical Corp. Herbicidal composition and method employing substituted benzimidazoles. 3,325,271, 6–13–67, Cl. 71—2.4.

Goldsmith, Henry A., to Purex Corp. Paint stripper composition. 3,297,581, 1–10–67, Cl. 252—153.

Goldsmith, Joseph, W. H. McMahan, and E. H. Byerly, to Martin-Marietta Corp. Pulsed gas laser. 3,351,870, 11–7–67, Cl. 331—94.5.

Goldsmith, Kathryn: *See*—
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Goldsmith, Norman, to Radio Corp. of America. Method of depositing epitaxial layers of a gallium arsenide. 3,310,425, 3–21–67, Cl. 117—106.

Goldsmith, Philip, to United Kingdom Atomic Energy Authority. Phosphoric acid-glycerine electrolyte for hygroscopic cell. 3,337,441, 8–22–67, Cl. 204—195.

Goldsmith, Sidney. Biopsy needle. 3,330,268, 7–11–67, Cl. 128—2.

Goldsobel, Norman, to Electrical Fittings Corp. Electrical fitting entrance cap. 3,328,513, 6–27–67, Cl. 174—81.

Goldsobel, Norman, to Electrical Fittings Corp. Pivot means for an electrical fitting or the like. 3,356,247, 12–5–67, Cl. 220—31.

Goldstein, Albert: *See*—
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Goldstein, Albert, and J. W. Brook, to Chemirad Corp. Sizing composition of starch and a reaction product of an isocyanate with an alkylene imine and process of sizing paper therewith. 3,310,460, 3–21–67, Cl. 162—164.

Goldstein, Alma W., to Abbott Laboratories. Antitumor agent M-6672 and method of preparation. 3,318,783, 5–9–67, Cl. 195—80.

Goldstein, Amnon, and A. R. McGreevy, to Fairchild Camera & Instrument Corp. Electrolytic recording media. 3,310,479, 3–21–67, Cl. 204—2.

Goldstein, Arthur. Hand-drying apparatus. 3,305,938, 2–28–67, Cl. 34—44.

Goldstein, Carmi S., to Kinelogic Corp. Dynamic capacitor having a peripherally driven element and system incorporating the same. 3,356,917, 12–5–67, Cl. 317—245.

Goldstein, David, W. J. Buehler, and R. C. Wiley, to United States of America, Navy. Metallic composites. 3,352,650, 11–14–67, Cl. 29—191.

Goldstein, Edwin W., to Milprint, Inc. Bag carrier. 3,339,721, 9–5–67, Cl. 206—56.

Goldstein, Eugene E., to The Celotex Corp. Apparatus for making rigid mineral fiber panels. 3,325,859, 6–20–67, Cl. 18—4.

Goldstein, Herbert J.: *See*—
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Goldstein, Herman B., and M. A. Silvestri, to Sun Chemical Corp. Reactive dyes and methylolated-4,5-dihydroxy-imidazolidone-2, in coloring cellulosic textiles. 3,355,242, 11–28–67, Cl. 8—17.

Goldstein, Lynn E., and L. D. Cook, to Texel Industries, Inc. Permanent frame mop head with adjustable handle lock. 3,357,036, 12–12–67, Cl. 15—147.

Goldstein, Malcolm. Wall-coverings. 3,304,995, 2–21–67, Cl. 160—327.

Goldstein, Malcolm. Means for applying coverings to the walls and ceiling of a room. 3,315,428, 4–25–67, Cl. 52—278.

Goldstein, Milton. Apparatus to work simultaneously on a door and its frame jambs. 3,313,327, 4–11–67, Cl. 144—2.

Goldstein, Morton and R. I. Power operated cleaning device. 3,343,192, 9–26–67, Cl. 15—23.

Goldstein, Murray S.: *See*—
Gerard, Allan, Goldstein, and Lerman. 3,322,942.

Goldstein, Paul, to Foster Wheeler Corp. Multiannular centrifugal separator. 3,314,220, 4–18–67, Cl. 55—343.

Goldstein, Paul, and R. J. Zoschak, to Foster Wheeler Corp. Once-through boiler downcomer flow distribution system. 3,338,218, 8–29–67, Cl. 122—406.

Goldstein, Richard M.: *See*—
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Goldstein, Roberta I.: *See*—
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Goldstern, Norbert. Registration record. 3,349,226, 10–24–67, Cl. 235—61.12.

Goldstine, Hallan E., E. Cohen, J. H. Wolff, and C. G. Arnold, to Radio Corp. of America. Remote monitoring system. 3,327,289, 6–20–67, Cl. 340—151.

Goldsworthy, Vaughn W.: *See*—
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Gonski, Joseph, to Westinghouse Air Brake Co. Boring type of continuous miner having central oscillating cutter drums. 3,307,878, 3–7–67, Cl. 299—57.

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Good, William E., and M. Graser, Jr., to General Electric Co. Monochrome projection system with first and second order diffraction. 3,308,230, 3–7–67, Cl. 178—5.4.

Good, William E., and T. T. True, to General Electric Co. Color projection system. 3,325,592, 6–13–67, Cl. 178—5.4.

Good, William E., M. Graser, Jr., and L. A. Juhlin, Jr., to General Electric Co. Deformable medium projection apparatus utilizing novel optical system comprising lens arrays employed in conjunction with light masks. 3,330,908, 7–11–67, Cl. 178—7.87.

Good, William E., and H. J. Vanderlaan, to General Electric Co. Light valve projection apparatus. 3,345,462, 10–3–67, Cl. 178—7.87.

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Norris, Carl L., Williams, Nelsen, Corner, Goodbar, and Oliver. 3,319,570.

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Goodenough, Robert D., R. A. Gaska, and R. C. Belski, to The Dow Chemical Co. Method of producing solid solutions of the carnallite type. 3,312,607, 4–4–67, Cl. 204—70.

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Goodman, Issac, J. E. McIntyre, and J. W. Stimpson, to Imperial Chemicals Industries Ltd. Crystallising linear polyesters from symmetric dicarboxylic compounds and unsymmetric diols. 3,321,437, 5–23–67, Cl. 260—47.

Goodman, Isaac S., to Westinghouse Electric Corp. Multiple-filament electric incandescent lamp. 3,309,646, 3–14–67, Cl. 339—145.

Goodman, Jack P. Earth boring machines and method of setting poles. 3,344,871, 10–3–67, Cl. 175—19.

Goodman, John E., to Ultrasonics Ltd. Apparatus for the mechanical production of acoustic vibrations for use in dispersion or like processes. 3,356,345, 12–5–67, Cl. 259—4.

Goodman, Joseph F. Scavenger vehicle. 3,353,696, 11–21–67, Cl. 214—501.

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Goodman, Ronald D. Electrical plug unit embodying duplex outlets. 3,349,363, 10–24–67, Cl. 339—155.

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Goodman, Warren L. Tracing file. 3,320,008, 5–16–67, Cl. 312—183.

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Grady, John J., to International Steel Slag Corp. Steel slag handling system. 3,316,075, 4–25–67, Cl. 65—19.
Grady, John J., to International Steel Slag Corp. Steel slag handling system. 3,316,079, 4–25–67, Cl. 65—141.
Grady, Robert J., to Beckman Instruments, Inc. Data processing system having external selection of multiple buffers. 3,297,996, 1–10–67, Cl. 340—172.5.
Grady, Robert J., and W. Klein, to Beckman Instruments, Inc. List control. 3,297,997, 1–10–67, Cl. 340—172.5.
Graeve, Egbert, to Bell Telephone Laboratories Inc. Phase-controlled oscillator having a bistable circuit in the control loop. 3,337,813, 8–22–67, Cl. 331—17.
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Graf, John A. Electrically illuminated animated toy. 3,358,401, 12–19–67, Cl. 46—228.
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Grafingholt, Alfred, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft. Apparatus for packaging pourable commodities. 3,318,067, 5–9–67, Cl. 53—112.
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Grafstein, Daniel, and H. F. Smith, to Thiokol Chemical Corp. Boron-containing compounds. 3,297,721, 1–10–67, Cl. 260—348.6.
Grafstein, Daniel, C. Vogel, S. I. Karlan, and M. M. Fein, to Thiokol Chemical Corp. Bis(hydroxyalkyl and carboxyalkyl carboranylalkyl) ethers. 3,306,933, 2–28–67, Cl. 260—535.
Grafstein, Daniel, and J. Bobinski, to Thiokol Chemical Corp. Di-acid chlorides of bis-carboxy carbornyl alkyl ethers. 3,355,489, 11–28–67, Cl. 260—544.
Grafstein, Daniel, J. Bobinski, and M. M. Fein, to Thiokol Chemical Corp. 11-carboranyl-alkenes and the preparation thereof. 3,360,569, 12–26–67, Cl. 260—606.5.
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Graham, Donald P., to E. I. du Pont de Nemours and Co. Production of polyfluoroaliphatic carboxylic acids from polyfluorinated olefins. 3,311,657, 3–28–67, Cl. 260—539.
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Graham, Erwin W., to The Pipe Machinery Co. Profile indicator and recorder. 3,319,341, 5–16–67, Cl. 33—174.
Graham, Geoffrey, to Scandura Inc. Heating means. 3,333,771, 8–1–67, Cl. 237—1.
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Graham, James L., to Eastman Kodak Co. Multilayer color photographic element. 3,352,673, 11–14–67, Cl. 96—22.
Graham, James S., to The Singer Co. Sewing machine motor mounting system. 3,326,158, 6–20–67, Cl. 112—220.
Graham, James W., to E. I. du Pont de Nemours and Co. Compatible blends of polymerized conjugated diene. 3,326,824, 6–20–67, Cl. 260—5.
Graham, James W., and G. E. Sgourakes, to The Foxboro Co. Rotary thrust bearing. 3,311,433, 3–28–67, Cl. 208—230.
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Graham, John E., to Sperry Rand Corp. Cash register. 3,335,949, 8–15–67, Cl. 235—130.
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Graham, Peter J., W. J. Linn, and W. J. Middleton, to E. I. du Pont de Nemours and Co. Sulfonium methylide compounds and polymeric compositions containing them. 3,330,313, 10–31–67, Cl. 252—63.7.
Graham, Phillip. Drafting machine. 3,328,883, 7–4–67, Cl. 33—18.
Graham, Phillip. Safe vehicle body. 3,356,175, 12–5–67, Cl. 180—93.
Graham, Richard H., and R. F. Fortune, to Canadian General Electric Co., Ltd. Dual fuel cycle for nuclear reactors. 3,336,201, 8–15–67, Cl. 176—30.
Graham, Richard H., and V. E. Calvin, to Cincinnati Industries Inc. Materials and methods for the production of stereotype mats. 3,356,562, 12–5–67, Cl. 161—128.
Graham, Robert A.: *See*—
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Graham, Robert P., E. J. Barta, and A. I. Morgan, Jr., to United States of America, Agriculture. Process for peeling wheat and other grains. 3,358,723, 12–19–67, Cl. 146—225.
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Graham, Robert W., to General Motors Corp. Electrohydraulic power steering system. 3,302,532, 2–7–67, Cl. 91—459.
Graham, Russell A., and W. V. Dwyer, to Allied Chemical Corp. Drain cleaning compositions. 3,344,078, 9–26–67, Cl. 252—157.
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Graham, Walter E. Modular transportation equipment. 3,350,113, 10–31–67, Cl. 280—43.23.
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Graham, William A. Plastic liner for oil filter. 3,344,925, 10–3–67, Cl. 210—312.
Graham, William G. Highway guide post. 3,308,584, 3–14–67, Cl. 52—98.
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Grahl, Darwin R., to American Radiator & Standard Sanitary Corp. Air conditioning system and valve used therein. 3,300,132, 1–24–67, Cl. 236—1.
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Gram, Arthur J., Jr., and A. P. Lecon, to The Babcock & Wilcox Co. Regenerative heat exchangers plate heat transfer surface details. 3,308,876, 3–14–67, Cl. 165—10.
Gram, Hans, to Brodrene Gram A/S. Apparatus for the production of frozen bodies. 3,296,822, 1–10–67, Cl. 62—341.
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Grams, Ronald L., and R. S. Graafsma, to Auto Specialties Mfg. Co. Trailer tongue lifting device. 3,351,321, 11–7–67, Cl. 254—86.
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Gran, Norman J. Sofa bed. 3,346,889, 10–17–67, Cl. 5—12.
Granata, Saverio, and G.-C. Giacchetti, to SNAM S.p.A. Nuclear fuel elements formed by metallic uranium or its alloys lined with magnesium or zironium alloys and process of lining said elements. 3,304,235, 2–14–67, Cl. 176—82.
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Granatek, Edmund S. and A. P., to Bristol-Myers Co. Antacid composition comprising aluminum hydroxide, magnesium hydroxide and magnesium gluconate. 3,350,266, 10–31–67, Cl. 167—55.
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Grandy, Andrew J., to United States of America, Army. Flame cartridge. 3,348,484, 10–24–67, Cl. 102—32.
Grandy, Andrew J., to United States of America, Army. Wire-guided projectile propelling system. 3,358,559, 12–19–67, Cl. 89—1.818.
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Granebro, Per G. W. Clothes rack. 3,358,846, 12–19–67, Cl. 211—104.
Graney, Paul L., and G. L. Hansen, to General Motors Corp. Spring shackle and method of manufacture thereof. 3,314,673, 4–18–67, Cl. 267—54.
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Granning, Ole. 3,325,181.
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Granqvist, Carl-Erik, to AGA Aktiebolag. Earth rotation compensating in inertia navigation. 3,304,788, 2–21–67, Cl. 74—5.4.
Granqvist, Carl-Erik, to AGA Aktiebolag. Stabilizing system for a gyroscope. 3,306,115, 2–28–67, Cl. 74—5.
Granqvist, Carl-Erik, to AGA Aktiebolag. Arrangement in spring loaded gyroscopes for inertia navigation. 3,307,411, 3–7–67, Cl. 74—5.
Granqvist, Carl-Erik, to AGA Aktiebolag. North-seeking gyro system. 3,307,412, 3–7–67, Cl. 74—5.6.
Granqvist, Carl-Erik, to AGA Aktiebolag. Gyro platform arrangement. 3,308,670, 3–14–67, Cl. 74—5.34.
Granqvist, Carl-Erik, to AGA Aktiebolag. Phase controlled oscillator loop including an electronic counter. 3,344,361, 9–26–67, Cl. 331—18.
Granryd, Thorvald G., to International Harvester Co. Side dump tractor loader. 3,312,364, 4–4–67, Cl. 214—768.
Granryd, Thorvald G., to International Harvester Co. Four wheel drive articulated vehicle with means to transfer power between the wheels. 3,334,702, 8–8–67, Cl. 180—51.
Gransten, Gunnar L. Supporting device for hand tools. 3,345,021, 10–3–67, Cl. 248—13.
Gransten, Lennart, to Rederi Ab Soya. Fluid motor regulating mechanism having friction compensator. 3,344,797, 10–3–67, Cl. 137—18.
Grant, Albert E., to United Kingdom Atomic Energy Authority. Production of uranyl fluoride. 3,338,683, 8–29–67, Cl. 23—346.
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Grant, Arthur F., to Allied Machine & Engineering Corp. Speed reducer or increaser. 3,320,828, 5–23–67, Cl. 74—675.
Grant, Arthur F., Jr., and J. S. Martinez, to TRW Inc. Nuclear isotope monopropellant hydrazine engine. 3,303,651, 2–14–67, Cl. 60—203.
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Grant, Charles H., to The Dow Chemical Co. Ammonium nitrate-alkali metal nitrate explosive containing aluminum of particular size distribution. 3,307,986, 3–7–67, Cl. 149—21.
Grant, Charles H. Aircraft wing with internal air passages for increased lift. 3,317,162, 5–2–67, Cl. 244—42.
Grant, David E., to Hercules Inc. Method for forming polypropylene film. 3,345,447, 10–3–67, Cl. 264—211.
Grant, Don S. Corn popping apparatus. 3,323,440, 6–6–67, Cl. 99—238.1.
Grant, Earl W., to Statham Instruments, Inc. Circuit for controlling the firing angle of a semiconductor A.C. current-controlling devices. 3,341,769, 9–12–67, Cl. 323—22.
Grant, James A., to Crane Packing Co. Lip seal with supporting lip. 3,360,274, 12–26–67, Cl. 277—58.
Grant, James H., and J. V. Jester, deceased by A. G. Jester, executrix. Traffic control device. 3,319,222, 5–9–67, Cl. 340—38.
Grant, James N., E. A. Honold, F. R. Andrews, R. S. Brown, and C. L. Shepard, to United States of America, Agriculture. Card assembly sampler. 3,345,878, 10–10–67, Cl. 73—421.
Grant, John C., to Byron Jackson Inc. System for spraying drill pipe. 3,306,310, 2–28–67, Cl. 134—122.
Grant, John C., to Byron Jackson Inc. Side-opening pipe wiper. 3,329,987, 7–11–67, Cl. 15—210.
Grant, John C., to Byron Jackson Inc. Apparatus for spraying drill pipe. 3,334,639, 8–8–67, Cl. 134—122.
Grant, John F.: *See*—
Saunders, Alfred C., and Grant. 3,329,514.
Grant, John W., and J. E. Kleboe, to R. R. Donnelley & Sons Co. Automatic typeset machine control. 3,337,686, 8–22–67, Cl. 178—23.
Grant, Louis A. De-liner machines for blast furnaces and the like. 3,302,976, 2–7–67, Cl. 299—70.
Grant, Louis A. Blast furnace lining removing machine. 3,346,300, 10–10–67, Cl. 299—70.
Grant, Norman H.: *See*—
Alburn, Harvey E., Clark, and Grant. 3,300,510.
Alburn, Harvey E., Clark, Grant, and Russell. 3,329,675.
Alburn, Harvey E., and Grant. 3,299,046.
Alburn, Harvey E., and Grant. 3,340,252.
Grant, Norman H., D. E. Clark, and H. E. Alburn, to American Home Products Corp. Poly-6(aminolacyl-amino)penicillanic acids and method of preparation. 3,351,586, 11–7–67, Cl. 260—239.1.
Grant, Norman H.: *See*—
Alburn, Harvey E., Grant, Clark, and Wolf. 3,351,587.
Grant Oil Tool Co.: *See*—
Leathers, Clarence H., and Nixon. 3,323,327.
Grant, Orland W.: *See*—
Pomper, Anthony W., and Grant. 3,354,867.
Grant, Peter H., and A. C. Mueller, to Bell & Howell Co. Combined footage counter and end of film run indicator mechanism for motion picture camera. 3,297,397, 1–10–67, Cl. 352—172.
Grant Pulley & Hardware Corp.: *See*—
Del Vecchio, Joseph T., and Agnoff. 3,353,874.
Grant, Richard D. Device for lifting and supporting bed patients. 3,343,181, 9–26–67, Cl. 5—90.
Grant, Robert A.: *See*—
Hanssen, Tore, and Grant. 3,322,343.
Grant, Robert A., E. F. Sumner, R. R. Holbrook, and G. W. Ince, to King-Seeley Thermos Co. Electrical speedometer utilizing unsymmetrically positioned field coils. 3,299,353, 1–17–67, Cl. 324—70.
Grant, Robert F., and R. V. Jensen, to Walker Mfg. Co. Method of removing the cell walls of a resilient cellular filter material. 3,300,558, 1–24–67, Cl. 264—321.
Grant, Samuel, to Helene Curtis Industries, Inc. Aluminum organic complex and antiperspirant compositions containing the same. Re. 26,250, 8–15–67, Cl. 167—90.
Grant, Sidney, to N. & J. Motors Ltd. Apparatus for photographic developing. 3,314,352, 4–18–67, Cl. 95—94.
Grant, William E., to North American Aviation, Inc. Interconnecting circuits with a gallium and indium eutectic. 3,335,489, 8–15–67, Cl. 29—628.
Grantham, Frederick W. Laundry folder. 3,339,914, 9–5–67, Cl. 270—66.
Grantham, John M., H. Irik, F. L. O'Connell, and R. R. Pecheck, to Grantham & Oleson Electrical Contractors, Inc. Reel jack. 3,298,667, 1–17–67, Cl. 254—100.
Grantham & Oleson Electrical Contractors, Inc.: *See*—
Grantham, John M., Irik, O'Connell, and Pecheck. 3,298,667.
Grantham, Rodney E.: *See*—
Stimler, Morton, and Grantham. 3,307,448.
Grantham, Rodney E., to United States of America, Navy. Radio frequency free communication system. 3,306,206, 2–28–67, Cl. 70.2.
Grantham, Rodney E., and M. Stimler, to United States of America, Navy. Instrument for measuring energy in a light pulse. 3,302,521, 2–7–67, Cl. 88—23.
Grantland, Henry V. Instrument for computing unknown measurements of triangulations. 3,322,340, 5–30–67, Cl. 235—61.
Grantom, Roy L., and L. J. Spillane, to Monsanto Co. Oxidative dehydrogenation process. 3,297,777, 1–10–67, Cl. 260—683.3.
Grants, Paul R. Precast insulating masonry unit and insulating filler. 3,318,062, 5–9–67, Cl. 52—309.
Grantz, Elek. Electrical plug and receptacle. 3,349,360, 10–24–67, Cl. 339—14.
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Graphia Inc.: *See*—
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Graphic Electronics, Inc.: *See*—
Barron, John N. 3,327,400.
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Donahue, Leo O., and Behrens. 3,327,597.
Grasemann, Horst, to Chemische Werke Huls Aktiengesellschaft. Process for the purification of the waste gases from the liquid-phase oxidation of cyclododecane. 3,324,189, 6–6–67, Cl. 260—666.
Grasenick, Fritz: *See*—
Gessner, Siegfried, and Grasenick. 3,332,392.
Grasenick, Fritz, and S. Gessner. Spring biased fixing-clips for maintaining specimen carriers for electron microscopy in position. 3,307,035, 2–28–67, Cl. 250—49.5.
Graser, Clarence F., to Westinghouse Electric Corp. Air conditioner. 3,323,319, 6–6–67, Cl. 62—262.
Graser, Earl J., to Olinkraft, Inc. Basket-style article carrier. 3,330,441, 7–11–67, Cl. 220—113.
Graser, Earl J., to Olinkraft, Inc. Bottle carrier. 3,352,452, 11–14–67, Cl. 220—111.
Graser, Earl J., to Olinkraft, Inc. Partition structure to separate articles. 3,352,473, 11–14–67, Cl. 229—15.
Graser, Michael, Jr.: *See*—
Good, William E., and Graser. 3,305,630.
Good, William E., and Graser. 3,308,230.
Good, William E., Graser, and Juhlin. 3,330,908.
Good, William E., Graser, and Vanderlaan. 3,305,631.

Grashege, Albert A. Multiple compartment single piece blank carton and single piece blank therefor. 3,300,116, 1-24-67, Cl. 229—28.

Grasis, August R. Structural member. 3,353,320, 11-21-67, Cl. 52—693.

Grasley, Michael H., to Shell Oil Co. Calking and sealing composition containing block copolymers. 3,325,430, 6-13-67, Cl. 260—25.

Grasmann, Josef, to Tiox-Tinten- und Klebstoffwerk Gesellschaft m.b.H. Label dispenser. 3,342,662, 9-19-67, Cl. 156—384.

Grasmuck, Dieter, to Bolkow Gesellschaft mit beschrankter Haftung. Frequency division timing circuit employing shunting circuit for inhibting false reset signals to flip-flop stages. 3,312,835, 4-4-67, Cl. 307—88.5.

Grason-Stadler Co., Inc.: *See*—
Dippolito, Paul W. 3,295,513.

Grassauer, Willie K.: *See*—
Buggele, Norman J., and Grassauer. 3,317,015.

Grassel, Eugene E., and D. W. Schoen, to Donaldson Co., Inc. Gas filter. 3,350,860, 11-7-67, Cl. 55—387.

Grasselli, Robert, and R. A. Rightmire, to The Standard Oil Co. Process for converting chemical energy into electrical energy. 3,360,401, 12-26-67, Cl. 136—86.

Grasselli, Robert K.: *See*—
Callahan, James L., Grasselli, and Knipple. 3,328,315.
Callahan, James L., Grasselli, and Knipple. 3,338,952.

Grasselli, Robert K., to The Standard Oil Co. Manufacture of aromatic nitriles and aldehydes. 3,325,504, 6-13-67, Cl. 260—294.9.

Grasselli, Robert K., J. L. Greene, and N. R. Gray, to The Standard Oil Co. Process for producing 2-cyano-butadienes. 3,347,902, 10-17-67, Cl. 260—465.9.

Grassi, Carlo, to Antares, S.p.A. Carrying case for a portable typewriter. 3,348,892, 10-24-67, Cl. 312—208.

Grassin, Henri, and P. Meynard, to Compagnie des Ateliers et Forges de la Loire (St. Chamond, Firminy, St. Etienne, Jacob-Holtzer). Supporting structure for steelmaking converter vessels. 3,358,984, 12-19-67, Cl. 266—36.

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Grassland Dairy Products, Inc.: *See*—
Felton, Leslie N. 3,345,994.
Felton, Leslie N., and Wuethrich. 3,314,492.

Grassmann, Alfred, to Firma Mayer & Cie. Yarn feed installation. 3,347,436, 10-17-67, Cl. 226—177.

Grassmann, Gunther. Cutting blade. 3,305,917, 2-28-67, Cl. 29—103.

Grassmann, Karl: *See*—
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Grasso, Joseph R. Holder for cigarettes and the like. 3,313,308, 4-11-67, Cl. 131—187.

Grasso, Joseph R. Heat sealing hand tool. 3,322,603, 5-30-67, Cl. 156—597.

Grasso, Rocco, to Outboard Marine Corp. Sliding door. 3,348,337, 10-24-67, Cl. 49—449.

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Grate, Frank E., to The Williamson Co. Fabrication of tapered pipe. 3,321,945, 5-30-67, Cl. 72—51.

Grater, Vivian S., to Dominion Engineering Works Ltd. Pressure headbox for web forming machine. 3,341,400, 9-12-67, Cl. 162—347.

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Gratrix, Alfred E., Sr., to General Time Corp. Rotary switch with improved contact positioning. 3,329,780, 7-4-67, Cl. 200—38.

Gratsch, Jack M. Cutting machine. 3,304,607, 2-21-67, Cl. 30—273.

Grattan, Worthin F. Automatic transmission for automotive vehicles. 3,327,565, 6-27-67, Cl. 74—752.

Gratton, Charles P., and A. H. Russell, to Societe Anglo-Belge Vulcain SA. Liquid moderator-cooled nuclear reactor. 3,341,426 9-12-67, Cl. 176—41.

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Gratzmuller, Jean L. Sliding seal assemblies. 3,316,940, 5-2-67, Cl. 138—31.

Gratzmuller, Jean L. Actuating mechanism for electric circuit breaker comprising a rod solely in tension in all positions thereof or solely under compression in positions thereof. 3,349,207, 10-24-67, Cl. 200—150.

Gratzmuller, Jean L. Fuel supply system for an internal combustion engine. 3,354,872, 11-28-67, Cl. 123—30.

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Graveley, Oscar W., to Niagara Frontier Services, Inc. Actuating device. 3,304,797, 2-21-67, Cl. 74—491.

Graver, Richard B., and N. D. Farel, to Archer-Daniels-Midland Co. Method of preparing improved polyesters and alkyds, and products thereof. 3,325,428, 6-13-67, Cl. 260—22.

Graves, Bruce B.: *See*—
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Graves, Carl S., Jr. Hoisting device assembly. 3,334,755, 8-8-67, Cl. 212—8.

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Graves, Charles T., to General American Transportation Corp. Methods of making heat-insulated railway tank car bodies. 3,328,496, 6-27-67, Cl. 264—45.

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Giuffrida, Philip, Pratt, and Graves. 3,341,273.

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Graves, Harris B. and M. J., and H. Egerer; said Egerer assor. to said H. B. and M. J. Graves. Tree stand. 3,329,380, 7-4-67, Cl. 248—44.

Graves, Howard K. Piano soundboard. 3,311,009, 3-28-67, Cl. 84—192.

Graves, Howard K. Piano sound board. 3,312,136, 4-4-67, Cl. 84—192.

Graves, Howard K., to Ray Dolac Enterprises, Inc. Door operated space conditioning dispenser. 3,318,489, 5-9-67, Cl. 222—180.

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Graves, Jewel, to Big Dutchman, Inc. Poultry cage row support system. 3,311,087, 3-28-67, Cl. 119—18.

Graves, Jewel, to Big Dutchman, Inc. Poultry cage system with bird retainer and bottom supporting means. 3,313,271, 4-11-67, Cl. 119—48.

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Graves, Rodney J. Pneumatic movie film advance system. 3,326,441, 6-20-67, Cl. 226—67.

Graves, Ross E., to TRW Inc. Phase-stable receiver employing a phase-modulated injected reference. 3,329,900, 7-4-67, Cl. 325—346.

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Graves, Ross E., D. M. Jacob, and J. M. Sacks, to TRW Inc. Phase-stable receiver. 3,308,380, 3-7-67, Cl. 325—346.

Graves, Roy R., to The Graves-Stambough Corp. Dairy product and method of producing same. 3,314,798, 4-18-67, Cl. 99—126.

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Graves, William L., to The Budd Co. Protective slide for roving cans. 3,327,893, 6-27-67, Cl. 220—69.

Graves, Wilson S. Comb and hair net. 3,315,690, 4-25-67, Cl. 132—148.

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Gray, Billy C. Tension feed roll jack. 3,319,933, 5-16-67, Cl. 254—101.

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Gray, C. F., to Esso Research and Engineering Co. Producing purified fluid coke. 3,298,947, 1-17-67, Cl. 208—46.

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Gray, David T., to I-T-E Circuit Breaker Co. Rotary handle operator for circuit breaker with improved blocking position and latching cover structure. 3,313,896, 4-11-67, Cl. 200—50.

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Gray, Edward E., R. A. Long, and I. F. Davis, to General Precision, Inc. Correlator apparatus with averaging and summing means. 3,342,984, 9-19-67, Cl. 235—181.

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Chen, Catherine S. H., and Gray. 3,351,603.

Gray, Foster L.: *See*—
Clendinning, William R., and Gray. 3,322,979.

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Gray, George W., L. E. Flory, W. S. Pike, and R. E. Morey, to Radio Corp. of America. Traffic control system. 3,302,168, 1-31-67, Cl. 340—31.

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Gray, James H. Guard rail assembly. 3,332,666, 7-25-67, Cl. 256—13.1.

Gray, James H. Ground cotton retrieving system and belt. 3,342,310, 9-19-67, Cl. 198—179.

Gray, James J., to Gray Mfg. Co., Inc. Portable automobile lift having transversely adjustable bumper-engaging means and separate frame engaging means. 3,302,927, 2-17-67, Cl. 254—2.

Gray, James L., to Sperry Rand Corp. Multi-track magnetic recorder with rotatable head assembly. 3,332,085, 7-18-67, Cl. 346—74.

Gray, James R., to Bell Telephone Laboratories, Inc. Apparatus for testing digital-to-analog converters. 3,349,195, 10-24-67, Cl. 179—175.

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Gray, Landon R. Sheet metal stretch forming apparatus and method. 3,299,688, 1-24-67, Cl. 72—296.

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Gray, Lysle B., to Brunswick Corp. Preservation system for engines. 3,297,011, 1-10-67, Cl. 123—198.

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Gray, Michael H., and H. F. Sparks, Jr., to Deering Milliken Research Corp. Styrene-maleic anhydride copolymerization process. 3,297,657, 1-10-67, Cl. 260—78.5.

Gray, Michael H., E. C. Horton, Jr., and H. F. Sparks, Jr., to Deering Milliken Research Corp. Process for separating acrylic acid from impurities. 3,337,740, 8-22-67, Cl. 260—526.

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Gray, Richardson, to United Engineering and Foundry Co. Method and apparatus for controlling the temperature of hot strip. 3,344,648, 10-3-67, Cl. 72—364.

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Grayson, Edward L., and B. J. Perry, to RCL Electronics, Inc. Switch contact assembly. 3,352,979, 11-14-67, Cl. 200—11.

Grayson, Jerome H., to United States of America, National Aeronautics and Space Administration. Voltage-current characteristic simulator. 3,325,723, 6-13-67, Cl. 323—8.

Grayson, Lawrence E., N. E. Maxwell, and G. H. Schillreff, to General Dynamics Corp. Transporter-launcher. 3,303,740, 2-14-67, Cl. 89—1.815.

Grayson, Martin, P. T. Keough, and M. M. Rauhut, to American Cyanamid Co. Method of making phosphonium salts. 3,299,143, 1-17-67, Cl. 260—606.5.

Grayson, Martin, P. T. Keough, and M. M. Rauhut, to American Cyanamid Co. Phosphonium ethyl amine derivatives. 3,320,321, 5-16-67, Cl. 260—583.

Grayson, Martin, P. T. Keough, and M. M. Rauhut, to American Cyanamid Co. Phosphonium salts and derivatives and their preparation. 3,332,962, 7-25-67, Cl. 260—332.3.

Grayson, Martin, P. T. Keough, and M. M. Rauhut, to American Cyanamid Co. Quaternary organophosphonium halides and preparation thereof. 3,333,005, 7-25-67, Cl. 260—606.5.

Grayson, Martin, A. E. Sherr, H. C. Gillham, and M. E. Castellion, to American Cyanamid Co. Organophosphorus-copper complex compounds. 3,345,392, 10-3-67, Cl. 260—438.1.

Grayson, Richard D., to International Telephone and Telegraph Corp. Dual-piloted thermostatically controlled diaphragm valve. 3,304,002, 2-14-67, Cl. 236—80.

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Graziano, Lawrence A. Dye testing apparatus. 3,323,337, 6-6-67, Cl. 68—27.

Graziano, Victor, and F. H. Hartke, to Motorola, Inc. Closed loop ratio squared diversity combiner. 3,350,646, 10-31-67, Cl. 325—305.

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Graziosi, Michael. Three wire ground type safety fuse receptacle. 3,360,623, 12–26–67, Cl. 200—115.5.
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Greaney, Harry D., and J. E. Sullivan. String winding device. 3,309,038, 3–14–67, Cl. 242—85.1.
Greaney, Thomas P., to United States Steel Corp. Insulated water-cooled furnace supporting structure. 3,329,414, 7–4–67, Cl. 263—6.
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Greanias, Evon C., and R. J. Norman, to International Business Machines Corp. Apparatus for resolving space curve slopes into angular sectors. 3,297,988, 1–10–67, Cl. 340—146.3.
Greasley, Eric A., to Pressac Ltd. Lamp holder, primarily for use with circuit boards. 3,324,442, 6–6–67, Cl. 339—17.
Greasley, Eric A., to Pressac Ltd. Miniature lamp holders. 3,354,302, 11–21–67, Cl. 240—8.16.
Greasley, Eric A., to Pressac Ltd. Dustproof lamp holder. 3,358,136, 12–12–67, Cl. 240—8.16.
Greason, Craig P. Envelope. 3,356,285, 12–5–67, Cl. 229—70.
Greason, Craig P. Envelope. 3,356,286, 12–5–67, Cl. 229—70.
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Greber, Henry. Device to prevent vibration of aerial conductors. 3,296,357, 1–3–67, Cl. 174—42.
Greber, Henry. Electrical switch with electrostatic prevention of arc formation. 3,310,649, 3–21–67, Cl. 200—166.
Greber, Henry. Lightning arrester with semiconductor electrodes. 3,328,631, 6–27–67, Cl. 315—36.
Greber, Henry. Circuit breaker with controlled instant of operation. 3,360,684, 12–26–67, Cl. 317—11.
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Greck, Eugene, to American Flange & Mfg. Co., Inc. Method and apparatus for orienting articles. 3,297,130, 1–10–67, Cl. 198—33.
Greck, Eugene, to American Flange & Mfg. Co., Inc. Method and apparatus for dividing the flow of articles. 3,355,002, 11–28–67, Cl. 198—31.
Greco, Anthony. Guide device for portable electric saws. 3,344,824, 10–3–67, Cl. 143—160.
Greco, Carl C.: *See*—
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Greco, Joe, to United States of America, Army. Constant flow, variable area hybrid engine injector. 3,323,308, 6–6–67, Cl. 60—240.
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Green, Albert L., and G. L. Willey, to Smith Kline & French Laboratories. Methods and compositions for inducing tranquilizing muscle relaxant and depressant activity. 3,316,-151, 4–25–67, Cl. 167—65.
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Green, Albert W., to Mississippi Chemical Corp. Sulfur-coated urea fertilizer and method of making. 3,313,613, 4–11–67, Cl. 71—28.
Green, Alfred J., to NVF Co. Fiberglass reinforced textile bobbin. 3,350,030, 10–31–67, Cl. 242—118.32.
Green, Bertram P., and G. Phillips, to North American Philips Co., Inc. Automatic radio direction finder. 3,328,799, 6–27–67, Cl. 343—118.
Green, Carol P. Bag closure. 3,327,928, 6–27–67, Cl. 229—80.
Green, Charles A.: *See*—
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Green, Charles C. Measuring tape. 3,311,983, 4–4–67, Cl. 33—126.5.
Green, Clark L. Door control system. 3,354,677, 11–28–67, Cl. 70—279.
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Green, Daniel M., and R. F. Krueger, to Bristol-Myers Co. Method of producing ataraxic, anti-convulsant activity and skeletal muscle relaxation. 3,314,852, 4–18–67, Cl. 167—65.
Green, Derek, to United Kingdom Atomic Energy Authority. Extrusion apparatus. 3,296,660, 1–10–67, Cl. 18—12.
Green, Derek, to United Kingdom Atomic Energy Authority. Means for pressurising liquids. 3,318,256, Cl. 103—178.
Green, Derek, to United Kingdom Atomic Energy Authority. Hydrostatic extrusion of sheathed ceramic nuclear fuel material. 3,344,507, 10–3–67, Cl. 29—420.5.
Green, Derek, to United Kingdom Atomic Energy Authority. Hydrostatic extrusion apparatus. 3,354,685, 11–28–67, Cl. 72—253.
Green, Donald E., to Dow Corning Corp. Silicone polyimides. 3,338,859, 8–29–67, Cl. 260—30.2.
Green, Edward C. Wrench type combination tool. 3,314,-087, 4–18–67, Cl. 7—7.
Green, Edward H. Valve housing and dip tube assembly. 3,311,274, 3–28–67, Cl. 222—402.18.
Green, Edward H. Aerosol valve construction. 3,348,743, 10–24–67, Cl. 222—402.24.
Green, Elberson D.: *See*—
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Green, Elden G., to Varian Associates. Klystron having movable tuning wall, stiffening members bonded to the tube body and collector mounting means under compression. 3,327,159, 6–20–67, Cl. 315—5.38.
Green, Eric. Equalizer slide extension for tables. 3,337,274, 8–22–67, Cl. 308—3.6.
Green, Francis E., Jr., to Eureka-Carlisle Co. Perforation pattern. 3,333,688, 8–1–67, Cl. 206—56.
Green, Frank W., to General Electric Co. Circuit for monitoring a variable electrical quantity. 3,334,341, 8–1–67, Cl. 340—248.
Green, Frank W., and D. L. Watrous, to General Electric Co. Power supply. 3,319,126, 5–9–67, Cl. 317—33.
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Green, Frederic L., to Prescolite Mfg. Corp. Illuminated display fixture. 3,296,431, 1–3–67, Cl. 240—11.2.
Green, Frederic L., to Prescolite Mfg. Corp. Lighting fixture with adjustable beam director. 3,305,681, 2–21–67, Cl. 240—78.
Green, Frederic L., to Prescolite Mfg. Corp. Light fixture with spring toggle diffuser retention means. 3,328,579, 6–27–67, Cl. 240—147.
Green, Frederick H., to The Garrett Corp. Pulse tube refrigeration with a fluid switching means. 3,314,244, 4–18–67, Cl. 62—88.
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Green, George E. Adjustable railing. 3,306,586, 2–28–67, Cl. 256—73.
Green, George H., to United States of America, Navy. Diagnostic test for dental caries activity. 3,332,743, 7–25–67, Cl. 23—230.
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Green, Harold. One-way releasable snap fastener connection for webbing material. 3,349,452, 10–31–67, Cl. 24—218.
Green, Harold F., to Space Conditioning, Inc. Air treating and conditioning apparatus. 3,328,941, 7–4–67, Cl. 55—234.
Green, Harold H., and A. D. Robinson, to Dunlop Rubber Co. Ltd. Apparatus for the treatment of sheet materials. 3,300,874, 1–31–67, Cl. 34—242.
Green, Jack, and J. H. Osgood. Apparatus for cleaning a body of liquid and maintaining its level. 3,304,564, 2–21–67, Cl. 15—1.7.
Green, Jack C., and F. N. Morrison. Emergency fire escape apparatus. 3,307,654, 3–7–67, Cl. 182—198.

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Green, James H., to James Green Developments Ltd. Fire access door unit. 3,298,397, 1–17–67, Cl. 138—92.
Green, James R., and A. J. Fine, to Mattel, Inc. Three-dimensional display means. 3,333,358, 8–1–67, Cl. 40—160.
Green, Jim L. Roller skates. 3,355,184, 11–28–67, Cl. 280—11.19.
Green, John C. Folding step ladder. 3,307,652, 3–7–67, Cl. 182—22.
Green, John E., to United-Carr Inc. Sealing plug. 3,332,572, 7–25–67, Cl. 220—25.
Green, John F., to Cherry-Burrell Corp. Airtight bag packer. 3,351,391, 11–7–67, Cl. 302—53.
Green, John M., and R. Horne, to Monsanto Co. Capacitive signal comparison circuit. 3,343,086, 9–19–67, Cl. 324—111.
Green, John M., and P. F. McKinney, to Monsanto Co. Signal comparator using capacitor charge and discharge rates. 3,354,390, 11–21–67, Cl. 324—79.
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Green, Joseph, to Miner Industries, Inc. Toy hand-held voice modifier. 3,343,298, 9–26–67, Cl. 46—182.
Green, Joseph, and N. Mayes, to Thiokol Chemical Corp. Organo-boron copolymers. 3,301,836, 1–31–67, Cl. 260—86.1.
Green, Joseph, and N. Mayes, to Thiokol Chemical Corp. Boron-containing polymers. 3,351,616, 11–7–67, Cl. 260—75.
Green, Julius, to General Foods Corp. Process for preparing meat flavor and aroma compositions. 3,348,954, 10–24–67, Cl. 99—140.
Green, Kenneth W., and H. Raby, to Westland Aircraft Ltd. Trace reading devices. 3,302,194, 1–31–67, Cl. 340—347.
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Nesin, Daniel J., Green, and Kynicki. 3,349,702.
Nesin, Daniel J., Green, and Tanguay. 3,342,126.
Green, Lewis B., and D. A. Kleppin, to The Boeing Co. Measuring surface temperatures of ablating materials with thermocouple and photocell. 3,299,275, 1–17–67, Cl. 250—222.
Green, Louis G., 49% to N. C. MacDonald. Cam lock. 3,353,-856, 11–21–67, Cl. 292—66.
Green, Malcolm, to Schaevitz-Bytrex Corp. Constant moment load cell. 3,309,922, 3–21–67, Cl. 73—141.
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Green, Milton, to Polaroid Corp. Dihydroxyphenoxy-aryl monoazo compounds. 3,303,183, 2–7–67, Cl. 260—162.
Green, Milton, to Polaroid Corp. 1-(hydroquinonylalkylphenyl)-3 carbalkoxy-4(arylazo)-5-pyrazolones. 3,306,891, 2–28–67, Cl. 260—162.
Green, Milton, to Polaroid Corp. Monoazo hydroxynaphthoxy alkanoic acid containing compounds. 3,328,386, 6–27–67, Cl. 260—202.
Green, Milton, to Polaroid Corp. (Dihydroxy- and dicarbethoxy-phenyl)phenylcarboxamide compounds. 3,329,700, 7–4–67, Cl. 260—463.
Green, Milton, to Polaroid Corp. Photographic developing agents. 3,337,342, 8–22–67, Cl. 96—29.
Green, Milton, to Polaroid Corp. Photographic compositions, products and processes. 3,345,167, 10–3–67, Cl. 96—29.
Green, Milton, and P. T. Moore, to Polaroid Corp. Photographic products, compositions and processes utilizing azonaphthol dye developers. 3,297,441, 1–10–67, Cl. 96—29.
Green, Milton, and M. S. Simon, to Polaroid Corp. Ortho- and para-dihydroxyphenyl substituted monoazo dyes. 3,299,-041, 1–17–67, Cl. 260—197.
Green, Milton, T. W. Milligan, and D. L. Ross, to Polaroid Corp. Monoazo compounds containing a dihydroxyphenyl group and a 2-amino-8-naphthol group. 3,337,524, 8–22–67, Cl. 260—198.
Green, Milton, H. P. Husek, and S. Kasman, to Polaroid Corp. Monoazo dyes. 3,357,969, 12–12–67, Cl. 260—199.
Green, Norman F., to Honeywell Inc. Timing device. 3,343,424, 9–26–67, Cl. 74—25.
Green, Norman G., and E. Hodgson, to British Telecommunications Research Ltd. Converters for telegraph signals or the like. 3,346,693, 10–10–67, Cl. 178—26.
Green, Peter N.: *See*—
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Green, Richard, to Tenneco Chemicals, Inc. Formaldehyde polymer stabilized by a poly (acetal-amide). 3,318,970, 5–9–67, Cl. 260—823.
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Green, Robert A., and W. Dobson. Folding boom for mobile cranes. 3,306,470, 2–28–67, Cl. 212—144.
Green, Robert B., H. H. Geissler, and S. S. Kurpit, to Englehard Industries, Inc. Hydrogen generator. 3,350,176, 10–31–67, Cl. 23—281.
Green, Robert L., to FMC Corp. Method of producing detergent composition. 3,350,318, 10–31–67, Cl. 252—135.
Green, Ronald H., and S. F. Jenkins, to Fielding & Platt Ltd. Hydraulic extrusion presses. 3,334,507, 8–8–67, Cl. 72—272.
Green, Ronald M., and J. A. Hoffman, to American Telephone and Telegraph Co. Data line switching system having camp on busy line means. 3,344,235, 9–26–67, Cl. 179—18.
Green, Rudolph C. Attachment for electric clipper. 3,334,416, 8–8–67, Cl. 30—200.
Green, Sam J., to Champion Spark Plug Co. Ignition misfire and tracking simulator. 3,357,114, 12–12–67, Cl. 35—13.
Green, Stanley L.: *See*—
Rush, Stanley H., and Green. 3,336,868.
Stefano, Nicholas M., Rush, and Green. 3,319,520.
Green, Stanley S. Radio paging system responsive to pulses of correct frequency and timing. 3,314,048, 4–11–67, Cl. 340—164.
Green, Sydney J., and W. B. Fordyce, to Brown and Williamson Tobacco Corp. Processing of smoking tobacco. 3,316,-919, 5–2–67, Cl. 131—143.
Green, Walter E., to Associated Lead Manufacturers Ltd. Manufacture of antimony trioxide. 3,330,623, 7–11–67, Cl. 23—144.
Green, Walter E., deceased (by Lloyds Bank Ltd., executor), to Associated Lead Manufacturers, Ltd. Flame resistant composition. 3,333,970, 8–1–67, Cl. 106—15.
Green, Walter F., to The Timken Roller Bearing Co. Grinding machine. 3,334,445, 8–8–67, Cl. 51—103.
Green, William B., to Westinghouse Electric Corp. Semiconductor devices having a bottom electrode silver soldered to a case member. 3,331,996, 7–18–67, Cl. 317—234.
Green, William L., and R. W. Bricker, to United States of America, National Aeronautics and Space Administration. Mass measuring system. 3,323,370, 6–6–67, Cl. 73—432.
Green, William S.: *See*—
Hoertz, Charles D., Jr., and Green. 3,317,662.
Green, William S., and C. D. Hoertz, Jr., to Ashland Oil & Refining Co. Polycyclic aromatics by two-stage hydrodealkylation. 3,317,623, 5–2–67, Cl. 260—672.
Green, Zane A.: *See*—
Aronson, Arnold J., Green, and Hurley. 3,337,763.
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Greenawalt, Monte H. Method of making an arch support by measuring an impression of a foot. 3,320,347, 5–16–67, Cl. 264—223.
Greenbaum, Alfred. Conduit stabilizer for aquariums. 3,326,-184, 6–20–67, Cl. 119—5.
Greenbaum, Sheldon B., to Hooker Chemical Corp. Furoyloxyalkenyl thio phosphates. 3,326,943, 6–20–67, Cl. 260—347.2.
Greenbaum, Sheldon B., to Hooker Chemical Corp. Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. 3,341,407, 9–12–67, Cl. 167—33.
Greenbaum, Sheldon B., to Hooker Chemical Corp. Ethylenebis sulfonium salts for the control of soil borne pathogens and as seed protectants. 3,344,020, 9–26–67, Cl. 167—33.
Greenberg, Gerald B., and R. M. Scheiner, to Telar Associates, Inc. Space reflector device. 3,337,871, 8–22–67, Cl. 343—18.
Greenberg, Harry, to National Distillers and Chemical Corp. Caulking compound comprising mixed latices of elastomeric and resinous polymers. 3,309,349, 3–14–67, Cl. 260—94.9.
Greenberg, Harry, and C. C. Y. Liu, to Channel Master Corp. Ultra-high-frequency antenna assembly and parasitic array therefor. 3,344,431, 9–26–67, Cl. 343—795.
Greenberg, Herbert J.: *See*—
Adler, Everett J., and Greenberg. 3,329,534.
Greenberg, Herbert J., and L. P. Horwitz, to International Business Machines Corp. Self-adaptive systems. 3,333,248, 7–25–67, Cl. 340—172.5.
Greenberg, Jacob, and L. H. Thaller, to United States of America, National Aeronautics and Space Administration. Combined electrolysis device and fuel cell and method of operation. 3,357,862, 12–12–67, Cl. 136—86.
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Desmond, Timothy J., Greenberg, and Weisberg. 3,356,-543.
Greenberg, Leca S., J. Neilson, and H. Weisberg, to Radio Corp. of America. Controlled rectifier having asymmetric conductivity gradients. 3,327,183, 6–20–67, Cl. 317—235.
Greenberg, Percy, to John R. Thomson. Truck tarpaulin assembly. 3,310,338, 3–21–67, Cl. 296—100.
Greenberg, Sol: *See*—
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Dubin, Lester, Greenberg, and Gautherin. 3,323,034.
Greenberg, Sol, and I. Forrest. Stabilized potential and current sources. 3,323,038, 5–30–67, Cl. 323—22.
Greenberg, Sol, and G. Gautherin, to Lambda Electronics Corp. Regulated power supplies with self-commutating switching. 3,331,014, 7–11–67, Cl. 323—22.
Greenberg, Sol, G. Gautherin, and I. Forrest. Regulated AC-DC power supply. 3,353,083, 11–14–67, Cl. 321—18.
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Greenbie, Barrie B. Movable partition or wall. 3,335,532, 8–15–67, Cl. 52—122.

Greenblatt, Eugene N., and S. R. Safir, to American Cyanamid Co. Dosage unit composition of 1-(p-chlorophenyl)-1,2-cyclopropanedicarboximide for relief of depression. 3,344,-026, 9–26–67, Cl. 167—65.

Greenblott, Bernard J., D. R. McCormick, J. M. Scalone, and W. J. Wheeler, to International Business Machine Corp. Document sorting apparatus. 3,304,080, 2–14–67, Cl. 271—3.

Greendorfer, Joseph M., to United Aircraft Corp. Dinitrohydrazinoethane. 3,314,997, 4–18–67, Cl. 260—583.

Greene, Abbot, and P. Densen. Box construction. 3,322,323, 5–30–67, Cl. 229—37.

Greene, Ben. Cap with removable visor stiffener. 3,344,437, 10–3–67, Cl. 2—195.

Greene, Charles E., and W. J. van Essen, to The General Tire & Rubber Co. Elastomeric copolymers from dihydric phenols and organic dieproxides, their preparation and cure. 3,346,-532, 10–10–67, Cl. 260—37.

Greene, Ernest W., to Minerals & Chemical Philipp Corp. Phosphate matrix beneficiation process. 3,302,785, 2–7–67, Cl. 209—5.

Greene, Ernest W., and J. B. Duke, to Minerals & Chemicals Philipp Corp. Treatment of phosphate rock slimes. 3,314,-537, 4–18–67, Cl. 209—5.

Greene, Ernest W., and T. A. Cecil, to Minerals & Chemicals Philipp Corp. Method for granulating material. 3,315,-015, 4–18–67, Cl. 264—15.

Greene, George B. Typewriter with means to decrease rate of operation to prevent typebar malfunction. 3,342,296, 9–19–67, Cl. 197—20.

Greene, George B. Fluidynamic system and method of operation. 3,342,297, 9–19–67, Cl. 197—20.

Greene, George B. Fluidic telemetering apparatus for quantity meters. 3,352,488, 11–14–67, Cl. 235—91.

Greene, Harold R.: *See*—
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Greene, Harold R., to Electronic Associates Inc. Transmission system. 3,302,035, 1–31–67, Cl. 307—88.5.

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Greenspan, Joseph. Laminar form for use with electro stylus. 3,316,660, 5–2–67, Cl. 35—9.

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Greenstadt, Joseph C., to Mfg. Specialties Co., Inc. Supporting apparatus for medical bottles and the like. 3,321,-090, 5–23–67, Cl. 211—162.

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Greenwald, Harry, ⅛ each to L. Wolff and H. Silberglait. Protective device for locks. 3,334,501, 8–8–67, Cl. 70—423.

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Greer, John W., to Ford Motor Co. Multiple disc friction clutch and band brake construction. 3,321,999, 5–30–67, Cl. 74—763.

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Gregg, David P. Parturitive phone. 3,348,535, 10–24–67, Cl. Cl. 128—2.05.

Gregg, David P., to Gaus Electrophysics. Photoelectric transducer head. 3,349,273, 10–24–67, Cl. 313—95.

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Gregory, Benjamin F., to Trak Microwave Corp. Variable parameter X-band oscillator with temperature compensation. 3,340,482, 9–5–67, Cl. 332—30.

Gregory, Charles A., Jr., and M. S. McKenney, to Giannini Scientific Corp. Automatic exposure control for camera lens. 3,327,186, 6–20–67, Cl. 318—28.

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Spisak, Steve. 3,339,799.

Gregory, John W., C. W. Fetheroff, and J. M. Fuscoe, to TRW Inc. Fuel cell heat and water removal system using electrolyte circulation. 3,300,341, 1–24–67, Cl. 136—086.

Gregory, Lester, Jr., to Calark, Inc. Seed planter feeding indicator and counting mechanism and circuit control device. 3,355,102, 11–28–67 Cl. 235—98.

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Gregory, William C. Insulator covered with a protective envelope. 3,315,026, 4–18–67, Cl. 174—139.

Gregory, William C. Cleaning apparatus. 3,331,163, 7–18–67, Cl. 51—8.

Gregston, Jerry K. Lettering device. 3,359,641, 12–26–67, Cl. 33—23.

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Greifenhagen, Karl-Heinz, and D. Sohnlein, to Loewe Opta G.m.b.H. Turntable for magnetic sound- or video-tape recorders. 3,343,757, 9–26–67, Cl. 242—55.12.

Greig, Harold G., to Radio Corp. of America. Electrophotographic member and process utilizing polyarylmethane dye intermediates. 3,310,401, 3–21–67, Cl. 96—1.5.

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Greilich, Alfred L., to United States of America, Atomic Energy Commission. Non-photoemissive grid for a phototube and process for making same. 3,327,152, 6–20–67, Cl. 313—99.

Greiner, Harry, to Linotype G.m.b.H. Mold wheel indexing mechanism. 3,300,036, 1–24–67, Cl. 199—13.

Greiner, Hermann, and E. Von Gregor, to Fernseh G.m.b.H. Method and arrangement for the operation of pick-up tubes, preferably of the image-orthicon type. 3,308,235, 3–7–67, Cl. 178—7.2.

Greiner, Leonard, to Texaco Experiment Inc. Reaction propulsion device. 3,298,181, 1–17–67, Cl. 60—251.

Greiner, Otto. Deck chair with swingable back regulated by the supports. 3,306,659, 2–28–67, Cl. 297—19.

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Greiner, Otto. Self-adjusting beds. 3,353,193, 11–21–67, Cl. 5—66.

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Greis, Karl, and P. Hamacher, to Verwaltungsgesellschaft Moeller & Neumann offene Handelsgesellschaft. Sheet metal shears with compensation of knife drum tilt. 3,359,845, 12–26–67, Cl. 83—556.

Greiser, Melvin R. Prevention of beach erosion and encouragement of land restoration. 3,344,609, 10–3–67, Cl. 61—38.

Greissman, Jacob. Numbering marker for a recorder. 3,310,-810, 3–21–67, Cl. 346—98.

Greitzer, Harry. Conveyor. 3,344,906, 10–3–67, Cl. 198—195.

Greitzer, Meyer. Water faucet handle. 3,301,580, 1–31–67, Cl. 287—53.

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Grek, John W., to Continental Can Co., Inc. Towing and cutting device. 3,351,034, 11–7–67, Cl. 113—1.

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Grell, Philippe, E. Harmant, J. A. Dodd, and J. A. Driscoll, to Societe Anglo-Belge Vulcain, Societe Anonyme. Nuclear reactor core baffle. 3,356,589, 12–5–67, Cl. 176—87.

Grembecki, Elmer C., and A. J. Nelson, to Oxy-Dry International, Ltd. Printing cylinder cleaner. 3,309,993, 3–21–67, Cl. 101—425.

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Grenier, Emile P., to Ford Motor Co. Power steering pump. 3,349,714, 10–31–67, Cl. 103—41.

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Grenley, Dallas G., and H. J. Townsend, to The Dow Chemical Co. Coating of polymer film and sheet. 3,353,992, 11–21–67, Cl. 117—138.8.

Grepe, Frederick Y., to A. O. Smith Corp. Drive control including plural A.C. motors coupled to same shaft with D.C. braking. 3,319,142, 5–9–67, Cl. 318—48.

Grepe, Frederick Y., to A. O. Smith Corp. Electric hoist control system. 3,345,548, 10–3–67, Cl. 318—203.

Grepe, Frederick Y., to A. O. Smith Corp. Hoist motor control. 3,345,550, 10–3–67, Cl. 318—229.

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Gresens, Robert: *See*—
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Gresham, Virginia D. Male urinary drain with applicator. 3,336,926, 8–22–67, Cl. 128—295.

Gresham, Virginia D. Female urinary drain. 3,347,238, 10–17–67, Cl. 128—295.

Gressbach, Arthur. Lifting mechanism. 3,322,455, 5–30–67, Cl. 294—81

Gressette, John T., and F. G. Wilson. Card holder. 3,318,-311, 5–9–67, Cl. 129—18.

Gressley, Irvin R. Shoe measuring device. 3,332,151, 7–25–67, Cl. 33—3.2.

Gressman, Edward G., and J. E. Hiers, to Union Tank Car Co. Backwash and regeneration valve for water conditioning system. 3,298,396, 1–7–67, Cl. 137—637.4.

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Celio, Tino, and Mey. 3,340,360.
Ehrat, Kurt, and Eckstein. 3,310,867.
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Greten, Ernst, and P. Vajda, to Bahre Metallwerk K.G. Apparatus for the continuous manufacture of boards from particle-like substances. 3,312,999, 4–11–67, Cl. 18—4.

Grether, Tobias H., R. M. Ziegenmeyer, and J. Bermann, to Consolidated Thermoplastics Co. Apparatus for erecting a fluid barrier. 3,298,183, 1–17–67, Cl. 61—72.1.

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Gretton, Neil B. C., J. T. Rees, and W. Bradley. Enzymatic glucose test composition and device. 3,350,278, 10–31–67, Cl. 195—127.

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Gretzky, Anthony J., to Brunswick Corp. Shoe dispenser. 3,312,321, 4–4–67, Cl. 194—2.

Gretzschel, Herbert, T. Schmauder, and H.-P. Stuz. Wheeled vehicles for travel on streets and railways. 3,311,067, 3–28–67, Cl. 104—242.

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Greulich, Thomas A. Vertical take-off and landing airplane. 3,311,327, 3–28–67, Cl. 244—12.

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Grey, Gordon E., and W. W. Wilson, to Sperry Rand Corp. Bale wagon support. 3,317,062, 5–2–67, Cl. 214—6.

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Gribble, Joseph J., and M. Y. Turnbull, to Square D Co. Electric switching device. 3,328,552, 6–27–67, Cl. 200—168.

Gribble, Joseph J., K. J. Marien, and H. E. Whiting, to Square D Co. Multiple contact electromagnetically actuated switch and accessories therefor. 3,354,415, 11–21–67, Cl. 335—131.

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Grier, Nathaniel, to Merck & Co., Inc. Preparations for the production of metal 8-hydroxy quinolinates and process for utilizing same. 3,307,970, 3–7–67, Cl. 117—138.5.

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Pollack, Norman S., and Grieshammer. 3,320,349.

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Grieten, Fred M. Drag mechanism for a fishing reel. 3,315,913, 4–25–67, Cl. 242—84.45.

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Griffin, Anthony L., and E. G. Chetwynd. Identification button for garments. 3,344,543, 10–3–67, Cl. 40—1.5.

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Griffin, Phil H., III, to Bass Bros. Enterprises, Inc. Mud throttling valve. 3,342,216, 9–19–67, Cl. 138—45.

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Griffith, George L., to Trojan Powder Co. Explosive slurries from saturated ammonium nitrate solutions and process for preparing the same. 3,337,380, 8–22–67, Cl. 149—38.

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Grigorjev, Boris P. Method for restoring friction lubricative surfaces of machine parts. 3,298,952, 1–17–67, Cl. 252—26.

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Grigull, Hans, and K. H. Mirgel, to Leybold Holding A.G. Vacuum injection molding apparatus. 3,335,462, 8–15–67, Cl. 18—30.

Grilli, Chloe. Swimming device of mermaid shape. 3,344,449, 10–3–67, Cl. 9—309.

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Grillo, Gerald J., R. Aelion, and W. M. Sims, to Foster Grant Co., Inc. Graft copolymer of polyamide onto a vinyl aromatic-unsaturated carboxylic acid copolymeric backbone. 3,325,561, 6–13–67, Cl. 260—857.

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Grosner, George J., and E. V. Huda, to Raybestos-Manhattan, Inc. Binder composition. 3,316,187, 4-25-67, Cl. 260—2.5.

Grosner, George J., and E. V. Huda, to Raybestos-Manhattan, Inc. Curable binder composition comprising epoxy resin, curing agent, and polymeric latex. 3,316,195, 4-25-67, Cl. 260—29.6.

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Gross, Johann, to Blech-und Metallwarenfabrik Robert Fischbach K.G. Axial blowers. 3,337,122, 8-22-67, Cl. 230—117.

Gross, Johann, to Hydraulik G.m.b.H. Extruder having means for exchanging pressure plates and dies. 3,345,854, 10-10-67, Cl. 72—263.

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Gross, Kenneth J., T. Nitta, J. W. Sawhill, and R. E. Williams, to Rexall Drug and Chemical Co. Method of dehydrating heparin containing animal mucosa. 3,337,410, 8-22-67, Cl. 167—74.

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Gross, Leo. Method of ultrasonic drawing of sheet metal. 3,318,129, 5-9-67, Cl. 72—199.

Gross, Louis E., to Unity Mfg. Co. Remote controlled spotlight. 3,307,029, 2-28-67, Cl. 240—61.13.

Gross, Ludwig, and F. Pelz, to Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-, Kesset- und Waggonbau. Low-platform railway car bogie. 3,333,551, 8-1-67, Cl. 105—183.

Gross, Orville, and B. T. Alexander, to Chemetron Corp. Catalyst and method for producing the same. 3,296,325, 1-3-67, Cl. 260—677.

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Gross, Richard E., and G. H. Hunt, to Simplex Wire and Cable Co. Dielectric compositions containing halogenated voltage stabilizing additives. 3,350,312, 10-31-67, Cl. 252—63.2.

Gross, Richard P. Horizontal plate filter. 3,319,794, 5-16-67, Cl. 210—334.

Gross, Robert, to Mastereel Industries, Inc. Hub for film cores and tight-wound marginally apertured film strips. 3,331,564, 7-18-67, Cl. 242—71.8.

Gross, Sherman B., C. L. Uretsky, and P. T. Altebrando, to General Instrument Corp. Variable photosensitive semiconductor device having a graduatingly different operable surface area. 3,296,502, 1-3-67, Cl. 317—234.

Gross, William L. C., and O. H. Stone. System for the prevention of frost damage. 3,354,579, 11-28-67, Cl. 47—2.

Grosschopf, Herbert, P. Zehfeld, to Firma Rheinmetall G.m.b H. Gun barrel with variable capacity chamber. 3,359,856, 12-26-67, Cl. 89—16.

Grosse, Aristid V., and C. S. Stokes, to The Welsback Corp. Method for the production of ozone using a plasma jet. 3,309,300, 3-14-67, Cl. 204—176.

Grosse, Aristid V., and A. G. Streng, to United States of America, Navy. Dioxygen chlorine trifluoride. 3,320,031, 5-16-67, Cl. 23—203.

Grosse, Aristid V., and A. G. Streng, to United States of America, Navy. Dioxygen bromine pentafluoride. 3,341,294, 9-12-67, Cl. 23—203.

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Merijan, Ashot, and Grosser. 3,346,594.

Grosser, Frederick, and M. R. Leibowitz, to General Aniline & Film Corp. Methods of polymerizing N-vinyl imides. 3,299,023, 1-17-67, Cl. 260—88.3.

Grosser, Frederick, and M. R. Leibowitz, to General Aniline & Film Corp. Method of making insoluble polymers of N-vinyl imides. 3,306,881, 2-28-67, Cl. 260—78.

Grosser, Frederick, E. V. Hort, and A. Schwartz, to General Aniline & Film Corp. Polymerization of N-vinyl lactams using plural stage heating in the presence of catalyst compositions of hydrides or borohydrides of alkali metals and water. 3,306,886, 2-28-67, Cl. 260—88.3.

Grosser, Frederick, E. V. Hort, and A. Schwartz, to General Aniline & Film Corp. Method of making insoluble polymers of N-vinyl imides. 3,322,729, 5-30-67, Cl. 260—78.

Grosser, Frederick, E. V. Hort, and A. Schwartz, to General Aniline & Film Corp. Process for producing water insoluble polymers of N-vinyl imides. 3,322,730, 5-30-67, Cl. 260—78.

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Grossi, Lewis G., and A. S. Schmidt, Sr., to Alto Co. Method and apparatus for packaging. 3,300,945, 1-31-67, Cl. 53—35.

Grossman, Abraham, ½ to T. P. Mahoney. Fenestration construction. 3,344,575, 10-3-67, Cl. 52—656.

Grossman, Abraham. Curtain wall construction allowing vertical and horizontal expansion. 3,357,145, 12-12-67, Cl. 52—235.

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Grossteinbeck, Rolf, H. Holtz, H. Rabenhorst, and W. Willicks, to Battelle-Institut e.V. Electrostatic flocking apparatus. 3,329,125, 7-4-67, Cl. 118—638.

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Grove, Robert K., W. S. Collins, and S. C. De Brock, to United States of America, Air Force. Sump for space vehicles. 3,353,350, 11–21–67, Cl. 60—39.48.

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Grunewald, Herbert: *See*—
Hartung, Sigurd, and Grunewald. 3,332,990.
Scherhag, Bernhard, Hartung, Hausweiler, and Grunewald. 3,297,587.

Grunfeld, Charles. Protective covering. 3,303,851, 2–14–67, Cl. 135—7.1.

Grunfelder, Jean, to Sud-Aviation, Societe Nationale de Construction Auonautiques. Handling truck. 3,332,705, 7–25–67, Cl. 280—408.

Grunfelder, Philip J.: *See*—
Blakeslee, William W., Grunfelder, Nadolny, Sevebeck, and Vogeli. 3,301,958.
Di Iorio, Michael V., Grunfelder, and Sevebeck. 3,359,369.

Grunwald, Erich, to Siemens-Schuckertwerke Aktiengesellschaft. Magnet for magnetohydrodynamic generators. 3,345,523, 10–3–67, Cl. 310—11.

Grunwald, Frank M.: *See*—
Parsons, John M., and Grunwald. 3,340,563.

Grunwaldt, Arthur. Article support for a ladder. 3,331,577, 7–18–67, Cl. 248—238.

Grunzweig & Hartman AG.: *See*—
Buchmeier, Eduard. 3,313,075.
Eberle, Hans. 3,357,808.
Kurtze, Günter. 3,349,868.

Gruodis, Algirdas J., to International Business Machines Corp. Tunnel diode polarity inverter. 3,327,130, 6–20–67, Cl. 307—88.5.

Gruodis, Algirdas J., L. K. Lange, and W. H. McAnney, to International Business Machines Corp. Switching circuits employing esaki diodes. 3,348,033, 10–17–67, Cl. 235—175.

Grushkin, Bernard, to W. R. Grace & Co. Phosphonitrillic polymers. 3,351,607, 11–7–67, Cl. 260—39.

Grushkin, Bernard, and R. G. Rice, to W. R. Grace & Co. Chemical process. 3,329,716, 7–4–67, Cl. 260—551.

Grussen, Claude P.: *See*—
Grussen, Jean J. and C. P. 3,330,446.

Grussen, Jean J. and C. P. Spray-heads. 3,330,446, 7–11–67, Cl. 222—213.

Grussner, Andre, E. Lorch, and O. Schneider, to Hoffmann-La Roche Inc. 4-benzenesulfonamido-pyrimidine derivatives. 3,317,536, 5–2–67, Cl. 260—256.5.

Gruter, Bernhard: *See*—
Deicher, Oskar, Peter, and Buchholz. 3,334,469.

Grutsch, James F., E. A. McGee, and R. C. Mallatt, to Standard Oil Co. Copper chloride sweetening process. 3,305,479, 2–21–67, Cl. 208—192.

Gruver, Jerry T., to Phillips Petroleum Co. Composition comprising the reaction product of a carboxy terminated polymer of a conjugated diene, a polyepoxide containing at least 3 epoxy groups, and an imidazoline accelerator. 3,324,198, 6–6–67, Cl. 260—836.

Gruver, Jerry T., and G. Kraus, to Phillips Petroleum Co. Compounding procedure for acidic-terminated polymers. 3,354,116, 11–21–67, Cl. 260—41.5.

Gruver, John H., L. W. Seifried, and D. W. Johnson, to Addressograph Multigraph Corp. Dual roller platens in address printing machine. 3,340,800, 9–12–67, Cl. 101—56.

Gryctko, Carl E.: *See*—
Chamberlin, John R., Jr., and Gryctko. 3,324,259.

Gryctko, Carl E., to I-T-E Circuit Breaker Co. Vented mounting block for circuit breaker. 3,328,553, 6–27–67, Cl. 200—168.

Gryctko, Carl E., to I-T-E Circuit Breaker Co. Circuit breaker overload sensing device. 3,328,639, 6–27–67, Cl. 317—41.

Gryctko, Carl E., to I-T-E Circuit Breaker Co. Mounting assembly including front connected separable connectors. 3,328,647, 6–27–67, Cl. 317—119.

Gryctko, Carl E., to I-T-E Circuit Breaker Co. Combination plug-in block with current transformers. 3,328,648, 6–27–67, Cl. 317—119.

Gryctko, Carl E., to I-T-E Circuit Breaker Co. Circuit breaker trip unit assembly with improved thermal characteristics. 3,356,805, 12–5–67, Cl. 200—116.

Grygiene, Lawrence S., R. E. Schauer, and M. R. Winandy, to Automatic Electric Laboratories, Inc. Device for accumulating and indicating pulse data. 3,299,259, 1–17–67, Cl. 235—160.

Gryk, Leon, to Royal Typewriter Co., Inc. Code converter with provision for automatically generating precedence codes. 3,296,614, 1–3–67, Cl. 340—347.

Gryk, Leon, to Royal Typewriter Co., Inc. Code converter with provision for automatically generating precedence codes. 3,319,244, 5–9–67, Cl. 340—347.

Gryk, Leon, to Royal Typewriter Co., Inc. Code converters. 3,320,606, 5–16–67, Cl. 340—347.

Gryting, Harold J.: *See*—
Falterman, Charles W., Griffith, and Gryting. 3,309,250.

Gryzhin, Victor P.: *See*—
Bereslavsky, Alexander L., Nagibin, Chichoogov, Gryzhin, and Koorenkov. 3,319,541.
Speth, Sebastian. 3,352,653.

Grzybowski, Walter. Foot and hand spring-resistance exercising device. 3,298,688, 1–17–67, Cl. 272—83.

Grzybowski, Walter. Spring-biased exercising device. 3,343,837, 9–26–67, Cl. 272—83.

Grzymek, Rolf: *See*—
Gruber Paul J., and Grzymek. 3,309,821.

Gschwandtner, Eric, to Dominion Electrohome Industries Ltd. Stereophonic decoder for frequency modulated signals. 3,315,037, 4–18–67, Cl. 179—15.

Gsell, Albert: *See*—
Firgau, Werner, and Gsell. 3,344,849.

Gsell, Albert, to Svenska Rotor Maskiner Aktiebolag. Regenerative heat exchanger with stationary heat retaining mass and rotatable connections. 3,302,693, 2–7–67, Cl. 165—4.

Gstalder, Serge A.: *See*—
Raynal, Jean, Gstalder, and Renard. 3,358,783.

Gstalder, Serge, and J. Raynal, to Societe Anonyme: Societe Nationale des Petroles d'Aquitaine. Rotary boring tools operating with jets of fluid. 3,310,126, 3–21–67, Cl. 175—329.

Guadagno, Carmine. Exercising chair. 3,318,633, 5–9–67, Cl. 297—264.

Guadalupi, Mario, to SNAM S.p.A. Process for the separation of ammonia produced in medium and low pressure synthesizing lants. 3,354,615, 11–28–67, Cl. 55—40.

Guaranaschelli, Vincent, to Mutual Industries, Inc. Means for burning the exhaust gases of internal combustion engines. 3,354,635, 11–28–67, Cl. 60—29.

Guard Chemical Co., Inc.: *See*—
Chodsky, Sergey V., and Geraci. 3,297,524.

Guardian Chemical Corp.: *See*—
Globus, Alfred R. 3,328,304.

Guardian Electric Mfg. Co.: *See*—
Dhaens, Edward, Obszarny, and Schmidt. 3,335,240.

Guarino, Michael. Barber razor for double edge blades. 3,350,779, 11–7–67, Cl. 30—55.

Guarino, Peter A., and S. Gardner, to General Precision Inc. Solid state switching circuit. 3,351,780, 11–7–67, Cl. 307—88.5.

Guarino, Richard: *See*—
Elkind, Philip. 3,299,874.

Guarnaccio, Anthony J.: *See*—
Louvar, James J., Guarnaccio, and Symon. 3,330,777.

Guarnaccio, Anthony J., and E. J. Latos, to Universal Oil Producta Co. Amine salts of oxyalkylenated hydroxyhydrocarbon thiophosphates. 3,340,329, 9–5–67, Cl. 260—925.

Guarnaschelli, Stephen. High pressure compression fitting for tubing. 3,326,583, 6–20–67, Cl. 285—342.

Guarr, Joseph S., and R. F. Kelley. Flat pack pill dispenser with removable magazine. 3,310,201, 3–21–67, Cl. 221—197.

Guarracini, Joseph, to Radio Corp. of America. Method of making connection to stacked printed circuit boards. 3,316,618, 5–2–67, Cl. 29—155.5.

Guay, Joseph A.: *See*—
Killoran, Joseph L., Barnett, and Guay. 3,354,250.

Gubb, Kenneth F.: *See*—
Kemp, Kenneth A. W., and Gubb. 3,314,406.

Gubb, Kenneth F., and A. H. Seilly, to C.A.V. Ltd. Starting mechanism for internal combustion engines. 3,358,667, 12–19–67, Cl. 123—179.

Gubeli, Ferdinand, to Ferag, Fehr & Reist AG. Apparatus for dividing a stream of copies of folded newspapers, periodicals or other similar commodities continuously following one another in succession. 3,313,221, 4–11–67, Cl. 93—93.

Gubela, Hans E.: *See*—
Nier, Erich-Arthur and R. E., and Gubela. 3,359,671.

Guber, Fred H., Jr., and R. S. Kleppe, to Esso Research and Engineering Co. High temperature cyclone. 3,327,456, 6–27–67, Cl. 55—269.

Gübeli, Ferdinand, to Ferag, Fehr & Reist A.G. Apparatus for stacking copies of folded newspapers, periodicals or other similar articles. 3,331,516, 7–18–67, Cl. 214—6.

Guberman, Herbert D.: *See*—
Axelrod, Norman N., Guberman, Schwartz, and Vromen. 3,320,500.

Gubler, Kurt, to J. R. Geigy A.G. Pyrazole carbamic acid esters. 3,342,832, 9–19–67, Cl. 260—310.

Guckel, Gerhart A., to James Dole Engineering Co. Sterilizer for container covers. 3,323,856, 6–6–67, Cl. 21—78.

Guckel, Gerhart A., to James Dole Engineering Co. Container seamer and enclosure therefor. 3,349,542, 10–31–67, Cl. 53—112.

Guddal, Karl. Method of making a wall structure. 3,353,322, 11–21–67, Cl. 52—744.

Gude, Fritz: *See*—
Schmitt, Karl, and Gude. 3,352,830.
Schmitt, Karl, and Gude. 3,352,835.
Schmitt, Karl, and Gude. 3,352,836.
Schmitt, Karl, and Gude. 3,352,942.

Gudelis, David A., to Esso Research and Engineering Co. Process of preparing biodegradable alkylbenzene sulfonates by dimerizing an olefin of 5 to 10 carbon atoms with a silica-alumina catalyst. 3,351,654, 11–7–67, Cl. 260—505.

Gudenschwager, Philip F.: *See*—
Couleur, John F., Gudenschwager, and Shelly. 3,298,001.
Couleur, John F., Gudenschwager, and Shelly. 3,308,442.
Couleur, John F., Gudenschwager, and Shelly. 3,308,443.
Couleur, John F. Gudenschwager, Shelly, and Bahrs. 3,310,785.

Gudernatsch, Hugo: *See*—
Sennewald, Kurt, Erpenbach, and Gudernatsch, and Vogt. 3,346,637.

Gudmundsen, Austin, to McCulloch Corp. Spring starter for internal combustion engines. 3,306,277, 2–28–67, Cl. 123—185.

Gudmundson, Clark. Portable and towable boat trailer. 3,339,217, 9–5–67, Cl. 9—1.

Guebert, Kenneth W., and I. C. Jones, Jr., to The Dow Chemical Co. Coated filter aids. 3,352,424, 11–14–67, Cl. 210—502.

Guedry, Harry R., 50% to Associated Ideas, Inc. Cutting mechanism. 3,306,508, 2–28–67, Cl. 225—97.

Guegold, Howard W. Mobile vehicle for food storage. 3,314,688, 4–18–67, Cl. 280—47.37.

Guelda, Eugene J.: *See*—
Townsend, Merlyn E., Guelda, and La Rue. 3,311,956.

Guenel, Claude: *See*—
Gallet, Georges, and Guenel. 3,348,284.

Guengant, Paul, to Brown, Boveri, & Cie, Aktiengesellschaft. Turbine blading. 3,328,867, 7–4–67, Cl. 29—156.8.

Guenthard, Jacques: *See*—
Capponi, Miro, Guenthard, and Senn. 3,338,658.

Guenthard, Jacques, to Sandoz Ltd., also known as Sandoz A.G. Process for the dyeing of synthetic polyamides. 3,320,021, 5–16–67, Cl. 8—39.

Guenthard, Jacques, to Sandoz Ltd. (also known as Sandoz A.G.). Water-soluble reactive dyes containing halopyrimidine-5-carboxamido groups. 3,342,797, 9–19–67, Cl. 260—146.

Guenther, Gordon B., to Industrial Electronic Rubber Co. Resilient needle valve element. 3,326,520, 6–20–67, Cl. 251—358.

Guenthner, Richard A.: *See*—
Lazerte, James D., and Guenthner. 3,321,445.

Guerin, Ange P., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Pressure-signal amplifying device, especially applicable to the regulation of aircraft in flight during landing-approach. 3,324,870, 6–13–67, Cl. 137—82.

Guerin, Edmond H., Jr.: *See*—
Adams, Samuel F., and Guerin. 3,321,901.

Guerin, Jean, and J. Algueperse, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Anhydrous sodium cyanide and process for preparation of same. 3,323,860, 6–6–67, Cl. 23—79.

Guernet, Jacques, to C.A.M.E.C.A.-Compagnie d'Applications Mecaniques a l'Electronique, au Cinema et a l'Atomistique. Micropositioning mechanism. 3,318,593, 5–9–67, Cl. 269—60.

Guernet, Jacques, to Compagnie d'Applications Mecaniques a l'Electronique au Cinema et a l'Atomistique (CAMECA). Automatic film threading and rewinding apparatus. 3,333,783, 8–1–67, Cl. 242—55.12.

Guernet, Jacques, and Jean-Michel Rouberol, to Compagnie d'Applications Mecaniques a l'Electronique, au Cinema et a l'Atomistique. Slidable window for X-ray microanalyzers selectively permeable to hard or soft X-rays. 3,319,064, 5–9–67, Cl. 250—49.5.

Guernsey, Darius A.: *See*—
Schmidt, Lewis W. 3,326,319.

Guernsey, Frank A.: *See*—
Schmidt, Lewis W. 3,326,319.

Guernsey, J. D.: *See*—
Ruminsky, Paul P., and Brauchla. 3,356,112.

Guernsey, John B., to Crucible Steel Co. of America. Method of rolling steel. 3,296,846, 1–10–67, Cl. 72—200.

Guernsey, Richard H., to Creative Packaging Inc. Collapsible paperboard box. 3,332,600, 7–25–67, Cl. 229—20.

Guerout, Jean-Bernard, and M. Lafond, to AMP Inc. Crimping presses for crimping connector elements onto conductor means and the method therefor. 3,299,690, 1–24–67, Cl. 72—330.

Guerra, Alberto: *See*—
Ferrari, Alsides, Guerra, and Taramasso. 3,299,827.

Guerra, John A.: *See*—
Wollek, Raymond F., and Guerra. 3,313,635.

Guerrieri, Salvatore A., to The Lummus Co. Process for producing high purity oxygen by chemical means. 3,310,381, 3–21–67, Cl. 23—221.

Guerrieri, Salvatore A., to The Lummus Co. Process for recovering the alkali metal content of spent pulping liquor. 3,323,858, 6–6–67, Cl. 23—48.

Guerrieri, Salvadore A., to The Lummus Co. Method of recovering chemicals from spent pulping liquors. 3,353,906, 11–21–67, Cl. 23—48.

Guerth, Fritz A. Force measuring apparatus. 3,302,456, 2–7–67, Cl. 73—136.

Guerth, Fritz A., to United States of America, Navy. Apparatus for compensating for magnetic tape speed variations during playback. 3,306,987, 2–28–67, Cl. 179—100.2.

Guerth, Fritz A. Pulse generating apparatus. 3,317,742, 5–2–67, Cl. 307—88.

Guerth, Fritz A. Magnetic recording head. 3,333,275, 7–25–67, Cl. 346—74.

Guertin, Robert W.: *See*—
Boudot, William D., and Guertin. 3,341,075.

Guest, Dorothy J., and W. I. Williamson, to Imperial Chemical Industries Ltd. Detergent compositions. 3,326,807, 6–20–67, Cl. 252—152.

Guest, Howard R.: *See*—
Smith, Keith L., Winslow, Guest, and Kiff. 3,311,569.

Guest, John E., to Kelsey-Hayes Co. Automatic adjuster for drum brakes. 3,358,795, 12–19–67, Cl. 188—79.5.

Guetet, Robert C. M. Apparatus for blowing comminuted treating material onto plants and the like. 3,339,846, 9–5–67, Cl. 239—304.

Guettel, Marvin A., and C. F. Meyer, to Square D. Co. Monitor for detecting change in resistance between welded parts during welding current flow. 3,345,493, 10–3–67, Cl. 219—110.

Guettler, Michel, to Regie Nationale des Usines Renault. Pressure limiting devices for hydraulic brakes. 3,359,729, 12–26–67, Cl. 60—54.5.

Guevara, Antonio, Jr.: *See*—
Layne, Max E., Guevara, and Young. 3,326,608.

Guex, Waldemar: *See*—
Erlemann, Gustav, Guex, and Schnider. 3,322,635.

Guffy, Willie E., and W. B. Lincoln, Jr., to Inland Container Corp. Scoring device. 3,314,339, 4–18–67, Cl. 93—58.1.

Gugeler, Albert L.: *See*—
Bryant, Eugene E., and Gugeler. 3,298,860.

Guggenaster, Julius A.: *See*—
DeMastry, Anthony J., and Guggenaster. 3,296,694.

Guggenbeger, Johann, L. Renkamp, K.-H. Finger, and R. Mulik, to Holstein & Kappert Maschinenfabrik Phonix, G.m.b.H. Apparatus for mixing liquids with gases. 3,313,093, 4–11–67, Cl. 55—170.

Guggenbuhl, Walter, to Contraves Ag. Circuit arrangement for changing two electrical analog quantities. 3,327,231, 6–20–67, Cl. 329—167.

Guglielmelli, Joseph: *See*—
Pawlikowski, Louis J., and Guglielmelli. 3,323,803.

Guglielmetti, Leonardo: *See*—
Siegrist, Adolf E., Maeder, Liechti, and Guglielmetti. 3,351,591.
Siegrist, Adolf E., Maeder, Liechti, and Guglielmetti. 3,351,592.

Guglielmi, Antonio, to Ducati Elettrotechnica S.p.A. Static apparatus for regulating the recharging of batteries with current supplied by a three-phase generator. 3,320,509, 5–16–67, Cl. 320—39.

Guhl, Jay R., and L. J. Wirth; said Guhl assor. to said Wirth. Collating rack. 3,327,869, 6–27–67, Cl. 211—50.

Guhl, Richard E.: *See*—
Kress, Ralph H., Guhl, and Klecker. 3,323,610.

Guhring, Knut, to Gottlieb Guhring Ebingen. Machine tool. 3,309,819, 3–21–67, Cl. 51—95.

Guibert, Raul. Air curtain, ventilating system and air pump therefor. 3,350,994, 11–7–67, Cl. 98—36.

Guice, Wilma A.: *See*—
Ellzey, Samuel E., Jr., Wittman, Connick, and Guice. 3,338,968.

Guichet, Niles F. Dental articulator and method of use. 3,343,264, 9–26–67, Cl. 32—32.

Guichet, Niles F. Dental apparatus and method. 3,350,782, 11–7–67, Cl. 32—32.

Guichet, Niles F. Dental articulators and clutch fabrication. 3,359,639, 12–26–67, Cl. 32—32.

Guida, Thomas P.: *See*—
Bussolini, Jacob J., Guida, and Stone. 3,325,379.

Guido, Lawrence J., to Burroughs Corp. Actuating mechanism for multiple position devices. 3,302,484, 2–7–67, Cl. 74—625.

Guiducci, Lino: *See*—
Charault, Jean-Claude, Cogez, and Guiducci. 3,331,608.
Cogez, Paul, and Guiducci. 3,309,281.

Guiducci, Mariano A.: *See*—
Fried, Josef, and Guiducci. 3,314,946.

Guiducci, Mariano A., and P. P. Lemanski, to E. R. Squibb & Sons, Inc. 20-(aliphatic hydrocarbonoxy)- and 20-(substituted aliphatic hydrocarbon oxy)-pregnene-11-oxygenated-3-ones. 3,351,636, 11–7–67, Cl. 260—397.1.

Guiducci, Mariano A., and N. C. Kraemer, to E. R. Squibb & Sons, Inc. 12,20-dimethyl-Δ⁴-pregnene-3,20-dione steroids and derivatives thereof. 3,351,637, 11–7–67, Cl. 260—397.1.

Guienne, Paul F.: *See*—
Bertin, Jean H., and Guienne. 3,330,384.
Bertin, Jean H., and Guienne. 3,332,361.
Bertin, Jean H., and Guienne. 3,332,508.
Bertin, Jean H., and Guienne. 3,339,654.
Bertin, Jean H., and Guienne. 3,347,170.

Guienne, Paul F., to Bertin & Cie. Skirts for surface effect devices to reduce drag and air cushion disturbances. 3,339,655, 9–5–67, Cl. 180—7.

Guienne, Paul F., and M. H. J. Faure, to Bertin & Cie, Raisable flexible skirt for fluid-cushion sustained vehicles. 3,327,799, 6–27–67, Cl. 180—7.

Guier, William. Clutch between a source of power and a member to be rotated. 3,308,691, 3–14–67, Cl. 81—54.

Guignard, Boris, to Rexall Drug and Chemical Co. Means for the manufacture of plastic containers. 3,343,210, 9–26–67, Cl. 18—5.

Guilbert, Inc.: *See*—
Guilbert, Nicholas R., Jr. 3,337,070.
Guilbert, Nicholas R., Jr. 3,341,037.
Metz, Louis P. 3,352,059.

Guilbert, Nicholas R., Jr., to Guilbert, Inc. Loading and unloading apparatus for dumb waiters and the like. 3,337,070, 8–22–67, Cl. 214—95.

Guilbert, Nicholas R., Jr., to Guilbert, Inc. Vehicle positioning apparatus. 3,341,037, 9–12–67, Cl. 214—38.

Guild Arts & Crafts, Inc.: *See*—
Baues, Dietrich. 3,357,067.

Guild, Charles L., to Shell Oil Co. Clamp for coupling pile shell to mandrel. 3,308,627, 3–14–67, Cl. 61—53.7.

Guild, Charles L., to Shell Oil Co. Expansible mandrels. 3,335,574, 8–15–67, Cl. 61—53.72.

Guild, Glen H.: *See*—
Chopra, Sohinder N., and Guild. 3,344,218.

Guild Metal Joining Equipment Co.: *See*—
Wheeler, Donald J., and Lohrenz. 3,334,211.

Guild Molders, Inc.: *See*—
Abrams, Gilbert L. 3,295,711.

Guilline Instruments Ltd.: *See*—
Sutcliffe, Jack. 3,311,813.

Guiler, Robert L., to Sta-Rite Products, Inc. Drain mounted hydrotherapeutic apparatus for bathtub. 3,345,982, 10–10–67, Cl. 128—66.

Guilhamat, Louis, to M. Berliet Automobiles. Self-adjusting brake cylinder for automotive vehicle. 3,338,352, 8–29–67, Cl. 188—196.

Guillen, John, and D. W. Johnson. Circuit for determining the frequency of occurrence of random noise excursions in an intelligence signal. 3,351,857, 11–7–67, Cl. 324—103.

Guillet, Henri: *See*—
Calame-Longjean, Andre, Palli, and Guillet. 3,350,565.

Guillet, James E.: *See*—
Coover, Harry W., Jr., McCall, and Gnillet. 3,299,181.

Guillet, James E., and E. B. Towne, to Eastman Kodak Co. Diperoxycarbonic acid anhydrides and polymerization processes employing same. 3,316,228, 4–25–67, Cl. 260—89.1.

Guillet, James E., and R. L. Combs, to Eastman Kodak Co. Film forming thermoplastic compositions of improved moisture fogging resistance. 3,321,455, 5–23–67, Cl. 260—94.9.

Guillet, James E., and E. B. Towne, to Eastman Kodak Co. Hydrocarbyl and methoxyhydrocarbyl esters of diperoxy carbonic acid. 3,337,602, 8–22–67, Cl. 260—463.

Guillet, James E., and E. B. Towne, to Eastman Kodak Co. Peroxydicarboxylic acid esters and polymerization processes employing same. 3,341,507, 9–12–67, Cl. 260—89.1.

Guillet, James E., and E. B. Towne, to Eastman Kodak Co. Peroxide catalysts and polymerization processes employing the same. 3,352,926, 11–14–67, Cl. 260—610.

Guillette, Robert A., to Polaroid Corp. High voltage regulator-switch for bi-layer kinescope. 3,330,990, 7–11–67, Cl. 315—31.

Guillon, Jacques S., to Massey-Ferguson Industries Ltd. Adjustable shelf support. 3,351,313, 11–7–67, Cl. 248—246.

Guillon, Lucien. Adjustable support. 3,353,196, 11–21–67, Cl. 5—327.

Guillon, Pierre, and A. Valantin, to Charbonnages de France. Cutting drum for coal-cutting machines. 3,325,219, 6–13–67, Cl. 299—89.

Guillon, Pierre, and A. Valantin, to Charbonnages de France. Cutting auger. 3,325,220, 6–13–67, Cl. 299—90.

Guillot, Claude, to Compagnie des Ateliers et Forges de la Loire (St. Chamond, Firminy, St. Etienne, Jacob-Holtzer). Metal sheet and strip flattening apparatus. 3,326,026, 6–20–67, Cl. 72—163.

Guillot, Claude, to Compagnie des Ateliers et Forges de la Loire (St. Chamond, Firminy, St. Etienne, Jacob-Holtzer). Rolling mills having hydraulic pressure control. 3,333,453, 8–1–67, Cl. 72—245.

Guin, Joel B. Rotating combination heater-turbines. 3,312,065, 4–4–67, Cl. 60—108.

Guin, Joel B. Extensible airplane wings. 3,312,428, 4–4–67, Cl. 244—43.

Guin, Joel B. Powered water-ski surf-boards. 3,313,265, 4–11–67, Cl. 115—70.

Guin, Joel B. Exhaust purifying system. 3,331,201, 7–18–67, Cl. 60—30.

Guin, Joel B. Automobile tires. 3,331,423, 7–18–67, Cl. 152—313.

Guin, Joel B. Aircraft in-flight unloading system. 3,331,572, 7–18–67, Cl. 244—137.

Guin, Joel B. Compact mass rapid transit car. 3,349,723, 10–31–67, Cl. 105—344.

Guin, Joel B. High pressure jumping stick. 3,351,342, 11–7–67, Cl. 272—57.

Guinet, Philippe: *See*—
Blum, Pierre, Guinet, and Vaugoyeau. 3,336,116.

Guingand, Jean R., to Heurtey, Societe Anonyme. Apparatus for heat treating spools of open-wound metal strip. 3,309,073, 3–14–67, Cl. 266—5.

Guinn, David F.: *See*—
Fuhr, William H., Guinn, and Halpern. 3,319,229.
Guinn, Vincent P.: *See*—
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Hain, Paul O., to U.S. Plywood-Champion Papers Inc. Production of coated paper utilizing aqueous coatings containing a major weight proportion based on solids of heat softenable resin and utilizing non-equilibrium moisture conditions and shearing forces. 3,338,736, 8–29–67, Cl. 117—64.

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Hagedorn, Erwin C., and Hall. 3,351,475.

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Hall, Floyd V., to Liggett & Myers Tobacco Co. Apparatus and process for making multi-sectional filter tips for cigarettes. 3,357,321, 12–12–67, Cl. 93—1.

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Hall, Raymond L. Swimming pools. 3,317,926, 5–9–67, Cl. 4—172.

Hall, Raymond V., to Honeywell Inc. Control apparatus. 3,340,740, 9–12–67, Cl. 74—5.6.

Hall, Reginald H. and A. H. P., to The Distillers Co. Ltd. Production of pyridine. 3,306,905, 2–28–67, Cl. 260—290.

Hall, Richard D., to General Electric Co. Starter drive arrangements. 3,359,808, 12–26–67, Cl. 74—7.

Hall, Richard H., and M. Levy, to Xerox Corp. Cyclical xerographic process utilizing a selenium-tellurium xerographic plate. 3,355,289, 11–28–67, Cl. 96—1.4.

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Hall, Robert E., to The Dow Chemical Co. Secondary waste water treatment apparatus. 3,301,401, 1–31–67, Cl. 210—150.

Hall, Robert G., to Formatic, Inc. Method and apparatus for making patties. 3,347,176, 10–17–67, Cl. 107—4.

Hall, Robert N., to General Electric Co. Semiconductor strain sensitive devices and method of making the same. 3,331,124, 7–18–67, Cl. 29—577.

Hall, Robert N., to General Electric Co. Method for producing homogeneous crystals of mixed semiconductive materials. 3,335,084, 8–8–67, Cl. 252—62.3.

Hall, Robert N., to General Electric Co. Semiconductor junction laser device. 3,359,507, 12–19–67, Cl. 331—94.5.

Hall, Robert N., to General Electric Co. High power junction laser structure. 3,359,508, 12–19–67, Cl. 331—94.5.

Hall, Robert N., to General Electric Co. Semiconductive junction laser with temperature compensation. 3,359,509, 12–19–67, Cl. 331—94.5.

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Hall, Suzanne P. (nee Barton), B. Ellis, and V. Petrow, to The British Drug Houses Ltd. Progestational compositions comprising 17α-acetoxy-6,16-dimethyl pregna-4,6-diene-3,20-dione. 3,330,728, 7–11–67, Cl. 167—74.
Hall, Teller B. Cutting tool. 3,299,491, 1–24–67, Cl. 29—96.
Hall, Theodore W. Device for perforating and sorting indicia bearing cards. 3,326,219, 6–20–67, Cl. 129—16.1.
Hall, Thomas A., to The Youngstown Sheet and Tube Co. Apparatus for and method of production of steel. 3,301,664, 1–31–67, Cl. 75—60.
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Hall, Walter J., to Bell & Howell Co. Slide projector in combination with a sound tape and transparency slide holder. 3,353,443, 11–21–67, Cl. 88—28.
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Hall, Warren D. Lighting apparatus. 3,351,750, 11–7–67, Cl. 240—3.
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Slagle, Knox A. 3,340,929.
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Haley, Thomas L. 3,323,057.
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Haluska, Loren A., to Dow Corning Corp. Organopolysiloxanes. 3,355,425, 11–28–67, Cl. 260—46.5.

Haluska, Loren A., to Dow Corning Corp. Certain pyridyl silane derivatives. 3,355,455, 11–28–67, Cl. 260—297.

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Halverson, Richard P., to Sperry Rand Corp. Multi-aperture mated thin film memory element. 3,353,169, 11–14–67, Cl. 340—174.

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Ham, George E., to The Dow Chemical Co. (1-aziridinyl) alkyl arylthiocarbamates. 3,312,687, 4–4–67, Cl. 260—239.

Ham, George E., to Gulf Oil Corp. Foamable polymer compositions wherein the blowing agent is the reaction product of an azodicarboxylate and an amine. 3,320,189, 5–16–67, Cl. 260—2.5.

Ham, George E., to Dow Chemical Co. N-containing organosilicon polymer. 3,322,694, 5–30–67, Cl. 260—2.

Ham, George E., to The Dow Chemical Co. Aziridinyl carbamates. 3,337,533, 8–22–67, Cl. 260—239.

Ham, George E., to The Dow Chemical Co. Dicarbamates. 3,341,568, 9–12–67, Cl. 260—468.

Ham, George E., to The Dow Chemical Co. Certain 1-aziridinylalkyl phosphoramide compounds. 3,359,259, 12–19–67, Cl. 260—239.

Ham, George E., and L. Levine, to The Dow Chemical Co. Alkyl(aryloxyethyl)carbamates and process. 3,320,302, 5–16–67, Cl. 260—471.

Ham, George E., and P. M. Phillips, to The Dow Chemical Co. Manufacture of piperazine. 3,324,130, 6–6–67, Cl. 260—268.

Ham, George E., and L. Levine, to The Dow Chemical Co. Ethyl (hydrocarboxyethyl) carbamates. 3,326,962, 6–20–67, Cl. 260—471.

Ham, George E., and J. E. Stevens, to Dow Chemical Co. Polyester-polyamides containing aziridine groups. 3,354,126, 11–21–67 Cl. 260—78.

Ham, Howard M., Jr., to Moseley Associates, Inc. Detection of remote phase modulation of variable frequency carrier. 3,317,838, 5–2–67, Cl. 325—31.

Ham, James H., Jr., J. F. Ritchey, and W. R. Tolman; said Tolman assor. to Western Electric Co., Inc.; said Ham and Ritchey assors. to Bell Telephone Laboratories, Inc. Code transmitter. 3,316,357, 4–25–67, Cl. 17—5.

Ham, Paul D., and A. J. Timpson, to T. A. Harwood. Fish scaling apparatus. 3,304,574, 2–21–67, Cl. 17—5.

Hamac-Hansella Aktiengesellschaft: *See*—
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Anders, Gerhard. 3,835,676.
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Hamada, Masa: *See*—
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Hamaker, John W., and R. T. Martin, to The Dow Chemical Co. Plant growth control methods and compositions. 3,325,272, 6–13–67, Cl. 71—2.5.

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Hamamoto, Masaji: *See*—
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Hamamura, Yasuji, K. Hayashiya, and K. Naito; said Hayashiya and said Naito assors. to said Hamamura. Feedstuff for silkworms containing aromatic polyhydrocarboxylic acid and method. 3,328,170, 6–27–67, Cl. 99—2.

Hamann, George F., Sr. Precision measuring ruler. 3,303,570, 2–14–67, Cl. 33—107.

Hamann, Omer F.: *See*—
Compton, Robert H., Hamann, and Steadman. 3,340,420.

Hamann, Omer F., to General Dynamics Corp. Photosensitive logic circuitry utilizing light pipe. 3,304,433, 2–14–67, Cl. 250—227.

Hamann, Omer F., to Stromberg-Carlson Corp. Electroluminescent display device using plastic foam. 3,317,728, 5–2–67, Cl. 250—71.

Hamann, Omer F., to Stromberg-Carlson Corp. Character generating system utilizing a cathode ray tube in which a portion of a plurality of electron beams are selectively defocussed to form the character. 3,331,985, 7–18–67, Cl. 315—13.

Hamann, Omer F., to Stromberg-Carlson Corp. Astigmatic lens arrangement for cathode ray tubes. 3,349,269, 10–24–67, Cl. 313—78.

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Hamburgen, Arthur, to International Business Machines Corp. Detection and correction of transposition errors. 3,333,243, 7–25–67, Cl. 340—146.1.

Hamburger, Theodore, and J. E. Painter, to Westinghouse Electric Corp. Multi-atable ferroresonant circuit. 3,313,948, 4–11–67, Cl. 307—88.

Hamby, Jefferson O., and R. H. Chase, to Westinghouse Electric Corp. FM light communications system. 3,351,761, 11–7–67, Cl. 250—199.

Hamby, Russell S., to The Reliance Electric and Engineering Co. Tension controlled web drive. 3,348,107, 10–17–67, Cl. 318—6.

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Hamilton, Alan R., to Collins Radio Co. Error avoidance system for sampling type AFC circuit. 3,297,964, 1–10–67, Cl. 332—19.

Hamilton, Alan R., to Rice Barton Corp. Apparatus for liquid removal. 3,357,345, 12–12–67, Cl. 100—158.

Hamilton, Alexander, and J. D. Stewart, to J. R. Geigy, A.G. Process for the halogenation of phthalocyanines. 3,320,276, 5–16–67, Cl. 260—314.5.

Hamilton, Alexander, Jr., and C. D. Hamilton, to St. Joseph Paper Box Co. Carrying container. 3,343,743, 9–26–67, Cl. 229—21.

Hamilton, Allen R., to Consolidated Vacuum Corp. Vaporized material source. 3,313,474, 4–11–67, Cl. 230—69.

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Hamilton, Donald R., S. O'Hara, and R. G. Seidensticker, to Westinghouse Electric Corp. Process for controlling dendritic crystal growth. 3,298,795, 1–17–67, Cl. 23—301.

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Hamilton, Douglas D., ⅓ to Canadian International Paper Co., ⅓ to Quebec North Shore Paper Co., and ⅓ to Abitibi St. Anne Paper Ltd. Tree processing machine. 3,351,107, 11–7–67, Cl. 144—3.

Hamilton, Earl F., and R. B. Lay, to Hamilton Cosco, Inc. Tube construction. 3,304,108, 2–14–67, Cl. 287—189.36.

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Hamilton, Lewis J., to Instant Secretary Service, Inc. Self cleansing spark plug with gas flow directing means. 3,317,774, 5–2–67, Cl. 313—143.

Hamilton, Lyle A., to Mobil Oil Corp. Catalytic inter-esterification. 3,328,439, 6–27–67, Cl. 260—410.9.

Hamilton, Lyle A., to Mobil Oil Corp. Condensation of alkylene oxides. 3,328,467, 6–27–67, Cl. 260—615.

Hamilton, Lyle A., to Mobil Oil Corp. Catalytic conversion of fluorocarbons. 3,337,645, 8–22–67, Cl. 260—653.3.

Hamilton, Lyle A., to Mobil Oil Corp. Production of mono- and di-substituted phosphines. 3,352,925, 11–14–67, Cl. 260—606.5.

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Hamilton, Robert G., and L. R. Dickard, to Avery Products Corp. Retroreflective sign. 3,310,900, 3–28–67, Cl. 40—135.

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Hamilton, Stephen B., Jr., and H. S. Blanchard, to General Electric Co. 4-(4′-bromo-2′,6′-dimethylphenoxy)-2,6-dimethylphenol and method of preparation. 3,351,667, 11–7–67, Cl. 260—613.

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Hamilton, Vern E., to Douglas Aircraft Co., Inc. Method and means for making ambient light filter. 3,305,422, 2–21–67, Cl. 156—254.

Hamilton, Vern E., to Douglas Aircraft Co., Inc. Method for forming a protective facing on a cathode ray tube. 3,329,545, 7–4–67, Cl. 156—213.

Hamilton, Vern E., and L. M. Roseland, to Douglas McDonnell Corp. Spherical shaped plastic filter for cathode ray tube. 3,341,391, 9–12–67, Cl. 161—3.

Hamilton, Wallace, to Lewis Welding and Engineering Corp. Articulated cover for an opening. 3,318,361, 5–9–67, Cl. 160—193.

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Hamilton, William R., Jr., to Poor & Co. Molded plastic insulated joints. 3,335,953, 8–15–67, Cl. 238—243.

Hamilton, William R., Jr., to Poor & Co. Insulated rail joint. 3,335,954, 8–15–67, Cl. 238—243.

Hamilton, Willis D. Adherent acoustical and decorative coating composition. 3,338,848, 8–29–67, Cl. 260—2.5.

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Hamlin, James S., to E. I. du Pont de Nemours and Co. Vacuum frame utilizing air imbleed during exposure of photosensitive materials. 3,359,879, 12–26–67, Cl. 95—76.

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Hammell, Kemper M., and H. Rueger, to AMP Inc. Terminal units for circuit panels. 3,308,417, 3–7–67, Cl. 339—59.

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Hammond, John H., Jr., deceased; R. G. Lucas, N. L. Leek, and The National Shawmut Bank, executors. Communication system utilizing selective sweep pattern. 3,308,381, 3–7–67, Cl. 325—349.

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Hammond, Robert J., to V-M Corp. Record changer spindle. 3,352,562 11–14–67, Cl. 274—10.

Hammond, Roland P., to United States of America, Atomic Energy Commission. Multistage flash evaporator. 3,342,697, 9–19–67, Cl. 202—173.

Hammond, Roland P., to United States of America, Atomic Energy Commission. Plural conduit flash film evaporator for distilling and condensing sea water. 3,355,364, 11–28–67, Cl. 202—172.

Hammond, Wardlaw M., Jr., to Martin-Marietta Corp. Sighting device which superimposes the image of target with that of a missile. 3,352,196, 11–14–67, Cl. 88—2.4.

Hammonds, Eddie R., to Owens-Johnson Shearing Blade Corp. Land clearing blade. 3,351,108, 11–7–67, Cl. 144—34.

Hammonds, John E. Novel device and method for reproducing printed matter. 3,346,431, 10–10–67, Cl. 156—235.

Hammons, Billy G., 49% to Moore, Velikanje & Countryman. Blood container. 3,304,977, 2–21–67, Cl. 150—1.

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Hardt, Dietrich, H. Bartl, and R. Wust, to Farbenfabriken Bayer Aktiengesellschaft. Graft copolymer of vinyl chloride and comonomer onto a partially hydrolyzed ethylene-vinyl ester backbone polymer. 3,355,516, 11–28–67, Cl. 260—878.

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Brown, John J., Hardy, and Nora. 3,318,885.
Brown, John J., Hardy, and Nora. 3,318,886.
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Hardy, William B., and R. P. Bennett, to American Cyanamid Co. Process or the preparation of N,N'-disubstituted ureas. 3,325,142, 8–8–67, Cl. 260—256.4.

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Hare, Harold H. Electronic organ speaker system. 3,346,070, 10–10–67, Cl. 181—31.

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Harford, James W. Random access magnetic information retrieval system. 3,344,416, 9–26–67, Cl. 340—174.1.

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Hargens, Charles W., III, to The Franklin Institute. Photosensitive self-monitoring drawing plotter using light conducing fibers. 3,335,287, 8–8–67, Cl. 250—227.

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Hargreaves, James, and G. J. Powell, to Wickman Wimet Ltd. Cutting tools. 3,339,257, 9–5–67, Cl. 29—105.

Hargreaves, John, G. Inker, and R. Sayer, to Esso Research and Engineering Co. Liquid fuel flow control and metering apparatus. 3,324,922, 6–13–67, Cl. 158—36.3.

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Harker, Charles B., to Tekni Craft, Inc. Freezing condition control. 3,298,190, 1–17–67, Cl. 62—136.

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Harling, Donald W., to McGraw-Edison Co. Luminaire. 3,315,072, 4–18–67, Cl. 240—25.

Harling, Donald W., to McGraw-Edison Co. Luminaire optical assembly. 3,329,812, 7–4–67, Cl. 240—93.

Harloff, Hans-Joachim, to Siemens & Halske Aktiengesellschaft. Transformer for low temperatures. 3,319,206, 5–9–67, Cl. 336—218.

Harlow, Willis E., and R. B. Beare, to Borg-Warner Corp. Additive dispenser. 3,316,741, 5–2–67, Cl. 68—207.

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Harm, Alson R., to The Procter & Gamble Co. Apparatus and method for making packages for cylindrical objects. 3,344,577, 10–3–67, Cl. 53—39.

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Harris, David A., to The Rank Organisation Ltd. Phase sensitive detectors. 3,300,727, 1–24–67, Cl. 329—50.
Harris, David A., to National Gypsum Co. Resilient furring channel. 3,333,379, 8–1–67, Cl. 52—364.
Harris, David A., to Imperial Chemical Industries Ltd. Vibrating distributor bar for agricultural chemicals. 3,353,748, 11–21–67, Cl. 239—102.
Harris, Donald A., H. R. Scudder, and H. G. Meister, Jr., to Hyster Co. Overhead load-handling apparatus. 3,302,967, 2–7–67, Cl. 294—65.
Harris, Dwight E., and G. Zoehfeld, to Rotron Mfg Co., Inc. Fastener. 3,321,221, 5–23–67, Cl. 287—53.
Harris, Dwight E., and G. Zoehfeld, to Rotron Mfg. Co., Inc. Regenerative compressors with integral mufflers. 3,360,193, 12–26–67, Cl. 230—232.
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Harris, George J., to Canadian Industries Ltd. Production of phosphorus. 3,353,917, 11–21–67, Cl. 23—223.
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Harris, Gerald. Bipod for attachment to a firearm. 3,327,422, 6–27–67, Cl. 42—94.
Harris, Gerald. Foldable gasoline driven golf cart. 3,329,228, 7–4–67, Cl. 180—27.
Harris, Gerald C., and E. Goralewski, to Chrysler Corp. Deck lid hinge assembly. 3,304,117, 2–14–67, Cl. 296—76.
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Harris, James W., and C. L. Paullus, to AMP Inc. Testing for leakage in electrical connectors. 3,340,723, 9–12–67, Cl. 73—40.
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Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Fluorinated ethylenically unsaturated organic sulfide compounds and polymers. 3,326,867, 6–20–67, Cl. 260—79.7.
Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Introduction of polyfluoroalkylthio groups into hydrocarbons. 3,347,765, 10–17–67, Cl. 204—162.
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Harris, Kenneth D. Hand tools. 3,338,274, 8–29–67, Cl. 140—118.
Harris, Kenneth J., R. J. Meyer, and D. I. Malm, to Deere & Co. Transmission. 3,298,252, 1–17–67, Cl. 74—761.
Harris, Kenneth R. Articulated grader. 3,324,583, 6–13–67, Cl. 37—153.
Harris, Lawrence A., to General Electric Co. Electron beam device with hidden cathode having annular, frusto-conical emissive surface. 3,351,794, 11–7–67, Cl. 313—82.
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Harris, Paul E. Unitized oil rings. 3,356,375, 12–5–67, Cl. 277—9.5.
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Harris, Ralph A., and P. E. Carroll, to Texas Instruments Inc. Amplifying system having high speed and high accuracy gain control. 3,360,737, 12–26–67, Cl. 330—52.
Harris, Ralph A., and F. R. Tischler, to Texas Instruments Inc. Apparatus for converting an exponentially decaying DC voltage into an exponentially decaying sinusoidal voltage. 3,360,738, 12–26–67, Cl. 330—52.
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Harris, Rano J., Jr., to Precision Sampling Corp. Apparatus for injection of fluids. 3,306,502, 2–28–67, Cl. 222—886.
Harris, Rano J., Sr., to Precision Sampling Corp. Chromatographic sample injection apparatus. 3,355,950, 12–5–67, Cl. 73—422.
Harris, Rano J., Sr. and R. J. Harris, Jr., to Precision Sampling Corp. Fluid injection apparatus. 3,325,062, 6–13–67, Cl. 222—386.5.
Harris, Raymond C., and G. C. Newland, to Eastman Kodak Co. Poly-alpha-olefin compositions containing pyrazolone stabilizers. 3,325,445, 6–13–67, Cl. 280—45.8.
Harris, Richard A., to Western Electric Co., Inc. Method of interconnecting conductors located on opposite sides of an insulating base. 3,340,600, 9–12–67, Cl. 29—581.
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Harris, Robert E., to Better Beverages, Inc. Beer and soft drink dispensing assembly. 3,305,136, 2–21–67, Cl. 222—129.1.
Harris, Robert P., and J. L. Krasner, to Conductron Corp. Means for simulating learning, forgetting and other like processes. 3,351,783, 11–7–67, Cl. 307—88.5.
Harris, Robert V., to Branson Instruments Inc. Dual transducer probe for ultrasonic testing. 3,325,781, 6–13–67, Cl. 340—15.
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Harris, Sidney F. Thermal balancing apparatus for adjusting and testing thermostat devices. 3,347,085, 10–17–67, Cl. 73—1.
Harris, Stanton A., and C. O. Gitterman, to Merck & Co., Inc. 1-benzyl tetramic acid derivatives. 3,299,095, 1–17–67, Cl. 260—326.3.
Harris, Stephen E., to Research Corp. Frequency modulation discriminator for optical signals. 3,324,295, 6–6–67, Cl. 250—199.
Harris, Sterling G., to The Blue Channel Corp. Apparatus for preparing crab bodies for the recovery of meat therefrom. 3,302,236, 2–7–67, Cl. 17—2.
Harris, Thaddeus W. Type of flash card. 3,345,759, 10–10–67, Cl. 35—31.
Harris, Theodore J., to M. Boosalic. Safety razor holder and case. 3,346,952, 10–17–67, Cl. 30—90.
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Harris, Thomas E., and S. J. Hughes, to Dominion Engineering Works Ltd. Grinding mill control or the like. 3,350,018, 10–31–67, Cl. 241—34.
Harris, Thomas G., to Armstrong Cork Co. Decorative surface covering compositions comprising vinyl resin and linoleum binder. 3,325,337, 6–13–67, Cl. 161—5.
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Harris, Thomas J., to International Business Machines Corp. High speed electro-optic printer or display. Re. 26,170, 3–7–67, Cl. 346—107.
Harris, Thomas J., to International Business Machines Corp. Electro-optic light deflector utilizing total internal reflection. 3,353,894, 11–21–67, Cl. 350—150.
Harris, Thomas J., and E. Shapiro, to International Business Machines Corp. Digital light deflector utilizing co-planar polarization rotators. 3,329,474, 7–4–67, Cl. 350—150.
Harris, Thomas J., and J. I. Aweida, to International Business Machines Corp. High-speed pneumatic switch. 3,335,-755, 8–15–67, Cl. 137—624.15.
Harris, Thomas J., and B. R. Shah, to International Business Machines Corp. High speed optical parallel-to-serial and serial-to-parallel conversion of binary information. 3,354,-451, 11–21–67, Cl. 340—347.
Harris, Willard M., to Wiscassett Mills Co. Stretchable textile article and method. 3,333,314, 8–1–67, Cl. 28—72.
Harris, William B., to Bell Telephone Laboratories, Inc. Variable width pulse generator. 3,359,498, 12–19–67, Cl. 328—57.
Harris, William B., to Bell Telephone Laboratories, Inc. Pulse generator. 3,346,745, 10–10–67, Cl. 307—88.5.
Harris, William B., Jr. Safety spatula for food blender. 3,346,029, 10–10–67, Cl. 146—68.
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Harris, William H. Precision dental paralleling process and apparatus. 3,344,525, 10–3–67, Cl. 32—67.
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Harris, Zachary N., to The Dow Chemical Co. Process for producing thin-wall plastic tubing. 3,335,208, 8–8–67, Cl. 264—95.
Harrison, Alan M., to Welwyn Plastics (1955) Ltd. Floor coverings and the like. 3,353,985, 11–21–67, Cl. 117—37.
Harrison, Anthony W., to Girling Ltd. Actuating and self-adjusting mechanism for disc brakes. 3,326,329, 6–20–67, Cl. 188—73.
Harrison, Arthur S. Honey extracting apparatus. 3,351,273, 11–7–67, Cl. 233—20.
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Harrison, Bede J. Hand writing implement. 3,338,217, 8–29–67, Cl. 120—98.
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Harrison, George, and N. K., to Imperial-Eastman Corp. Method and means for making metal forgings. 3,357,228, 12–12–67, Cl. 72—344.
Harrison, George, Jr., C. A. Kumins, E. N. Harvey, Jr., and G. A. Weber, to Interchemical Corp. Yellow pigment. 3,297,691, 1–10–67, Cl. 260—242.
Harrison, George C., to Amchem Products, Inc. Concentrated material for use in preparing and replenishing zinc phosphate coating solutions. 3,297,494, 1–10–67, Cl. 148—6.15.
Harrison, George C., to Minnesota Mining and Mfg. Co. Smooth joint for structural sheets and members. 3,355,196, 11–28–67, Cl. 287—20.92.
Harrison, Harold J.: *See*—
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Harrison, Harry W., ¼ each to D. A. Britton, and E. B. Colvin. Shock cushioning rotary driving well tool. 3,350,-900, 11–7–67, Cl. 64—23.

Harrison, Harry W., to Houston Engineers, Inc. Fluid spring tensile energy accumulator and shock absorbing device for well pipe strings. 3,353,613, 11–21–67, Cl. 175—293.

Harrison, Harry W. Packaging apparatus. 3,354,799, 11–28–67, Cl. 93—82.

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Harrison, Henry. Stepladder construction. 3,299,985, 1–24–67, Cl. 182—194.

Harrison, Henry, to Moeller Instrument Co., Inc. Adjustable dial thermometer. 3,357,251, 12–12–67, Cl. 73—363.7.

Harrison, Henry C. and H. Foldable container and blank therefor. 3,317,118, 5–2–67, Cl. 229—61.

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Harrison, Herbert G., to English Numbering Machines Ltd. Impact actuator for rockable print wheels. 3,357,348, 12–12–67, Cl. 101—94.

Harrison, Herbert L., to United States of America, Navy. Retention-release mechanism for reaction motors and rocket interstages. 3,329,089, 7–4–67, Cl. 102—49.4.

Harrison, Hugh T., to The Dow Chemical Co. Substituted triazine salt. 3,297,690, 1–10–67, Cl. 260—242.

Harrison, Hugh T., to The Dow Chemical Co. Hexafluoro arsenic and phosphoric acid adducts of urea compounds. 3,328,444, 6–27–67, Cl. 260—440.

Harrison, Hugh T., to The Dow Chemical Co. Thiourea hexafluoro arsenates and phosphates. 3,328,445, 6–27–67, Cl. 260—440.

Harrison, Hugh T., to The Dow Chemical Co. Picoline salts. 3,338,903, 8–29–67, Cl. 260—271.

Harrison, Hugh T., to The Dow Chemical Co. Hexafluoro-arsenic and -phosphoric acid salts of alkylaminoethyl methacrylates. 3,338,939, 8–29–67, Cl. 260—440.

Harrison, Hugh T., to The Dow Chemical Co. Hexafluoro-arsenic and -phosphoric acid salts of threonines. 3,338,940, 8–29–67, Cl. 260—440.

Harrison, Jack B., L. D. Hignett, and J. K. Gentles, to Goodlass Wall & Co. Ltd. Pentaerythritol modified epoxy resins. 3,352,804, 11–14–67, Cl. 260—18.

Harrison, James, and P. W. Jopling, to General Strapping Co. Wrapping apparatus for irregular bundles. 3,338,025, 8–29–67, Cl. 53—230.

Harrison, James A., and B. Quartermain, to Dary and United Engineering Co. Ltd. Method and apparatus for controlling the length of strip material. 3,322,961, 5–30–67, Cl. 250—219.

Harrison, James B.: *See*—
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Harrison, James W.: *See*—
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Steinbrecher, Lester, Dollman, Buczkowski, and Harrison. 3,350,284.

Harrison, Jerry W., to The Mead Corp. Partition. 3,301,-460, 1–31–67, Cl. 229—15.

Harrison, Jerry W., to The Mead Corp. Individual refrigerator door gasket die cut folder. 3,337,113, 8–22–67, Cl. 229—34.

Harrison, John, to Swift Levick & Sons Ltd. Permanent magnets. 3,314,828, 4–18–67, Cl. 148—31.57.

Harrison, John B.: *See*—
Bleiman, Lewis W., Harrison, and Panczner. 3,302,968.

Harrison, John D. L.: *See*—
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Harrison, John E., to General Dynamics Corp. Spectrum generator with vernier frequency adjustment capability. 3,324,-409, 6–6–67, Cl. 331—49.

Harrison, John L., to United States of America, Atomic Energy Commission. High coulomb spark gap switch with series magnet coils for rotating the arc. 3,320,478, 5–16–67, Cl. 315—347.

Harrison, John S. J., to Sperry Rand Corp. Monitor employing logic gate and counter to indicate normal pulse-train failure after predetermined time interval. 3,350,580, 10–31–67, Cl. 307—88.5.

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Harrison, John W., to W. R. Grace & Co. Heat shrinkable package. 3,355,010, 11–28–67, Cl. 206—46.

Harrison, Lew E. Wing flap control device for aircraft. 3,358,949, 12–19–67, Cl. 244—83.

Harrison, Lyle E., and L. J. Schafer; said Schafer, assor. to said Harrison. Flexible sinker. 3,318,037, 5–9–67, Cl. 43—42.72.

Harrison, Mary C. X-ray demonstration prism. 3,348,319, 10–24–67, Cl. 35—8.

Harrison, Nelson C., Jr., to Dover Corp. Safety device for a vehicle lift. 3,317,004, 5–2–67, Cl. 187—8.5.

Harrison, Nelson K.: *See*—
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Harrison, George and N. K. 3,357,228.

Harrison, Reginald, to Metalastik Ltd. Resilient mounting. 3,351,309, 11–7–67, Cl. 248—22.

Harrison, Richard I., and J. Zucker, to General Telephone and Electronics Laboratories, Inc. Semiconductor microwave power detector. 3,316,494, 4–25–67, Cl. 329—161.

Harrison, Richard I., and J. Zucker, to General Telephone and Electronics Laboratories Inc. Apparatus for modulating guided electromagnetic waves. 3,335,373, 8–8–67, Cl. 332—29.

Harrison, Robert R. Hydraulic motion transmitting system. 3,307,356, 3–7–67, Cl. 60—54.5.

Harrison, Thomas L., and A. J. Backus, to Pratt Mfg. Corp. Apparatus for applying closure tape to package forming webs. 3,322,600, 5–30–67, Cl. 156—461.

Harrison, Walter G., L. A. Gary, and A. C. Audet, to The Spra-Con Co. Coding devices for conveyors. 3,306,428, 2–28–67, Cl. 198—38.

Harrison, Walter G., L. A. Gary, and A. C. Audet, to The Spra-Con Co. Transfer means for conveyor construction. 3,333,677, 8–1–67, Cl. 198—129.

Harrison, Walter G., L. A. Gary, and A. C. Audet, to The Spra-Con Co. Article feeding means for conveyors. 3,339,-699, 9–5–67, Cl. 198—23.

Harrison, Walter G., L. A. Gary, and A. C. Audet, to The Spra-Con Co. Article conveyor construction. 3,360,106, 12–26–67, Cl. 198—155.

Harrison, Wayne T.: *See*—
Carrigan, Raymond J., and Harrison. 3,354,914.

Harrison, William: *See*—
Blackhurst, Robert V., and Harrison. 3,327,995.

Harrison, William S., to British Nylon Spinners Ltd. Yarn twisting and winding machine. 3,334,828, 8–8–67, Cl. 242—26.1.

Harriss, Andrew J., Jr., and R. G. Larsen, to E. I. du Pont de Nemours and Co. Process of packaging. 3,307,320, 3–7–67, Cl. 53—24.

Harrod, Jimmie A., to Paper Welder, Inc. Paper joining machine. 3,327,595, 6–27–67, Cl. 93—1.1.

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Harrold, Arthur E., to The General Electric Co., Ltd. Data storage arrangements. 3,301,970, 1–31–67, Cl. 200—5.

Harrold, Robert W.: *See*—
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Harrow, Arthur L.: *See*—
Merkl, George G., and Pearson. 3,356,889.

Harrower, Harold W. Adjustable wound edge protector. 3,347,-226, 10–17–67, Cl. 128—132.

Harrower, Harold W. Wound edge protector. 3,347,227, 10–17–67, Cl. 128—132.

Harruff, Ray W.: *See*—
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Harsco Corp.: *See*—
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Harse, Per-Olov, to North American Philips Co., Inc. Slide fastener type sheath for conductors. 3,344,226, 9–26–67, Cl. 174—70.

Harsh, Ralph. Seat cushion. 3,331,630, 7–18–67, Cl. 297—231.

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Harshberger, Norman P. Roofing product and method of application. 3,307,989, 3–7–67, Cl. 156—71.

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Hart, Arthur E. Means for separably attaching sights to guns. 3,324,558, 6–13–67, Cl. 33—50.

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Hart, Atlee S., and L. G. Mallett, to American Radiator & Standard Sanitary Corp. Elapsed time meter. 3,299,627, 1–24–67, Cl. 58—145.

Hart, Burt E., to United Aircraft Corp. Two-core three-coil transformers. 3,302,096, 1–31–67, Cl. 321—45.

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Hart, Duane. Concrete tamping device. 3,338,144, 8–29–67, Cl. 94—48.

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Hart, Gerald E., to United States of America, Navy. Heads-up display for pilots. 3,337,845, 8–22–67, Cl. 340—27.

Hart, Gerald E., to United States of America, Navy. Radio polarization guidance system. 3,353,182, 11–14–67, Cl. 343—102.

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Hart, Harold W. 3,353,518.

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Hart, Mark B. Underwater light for swimming pool. 3,339,-066, 8–29–67, Cl. 240—26.

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Hartenstein, Raymond G., to United States of America, National Aeronautics and Space Administration. Variable time constant smoothing circuit. 3,305,801, 2–21–67, Cl. 333—79.

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Peterson, John A., and Hartig. 3,305,305.

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Hartley, Daniel W., and J. E. Day, Sr. Portable tape applicator. 3,310,452, 3–21–67, Cl. 156—523.

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Hartley, Gilbert S., and R. Howes, to Fisons Pest Control Ltd. Agricultural chemical compositions. 3,333,942, 8–1–67, Cl. 71—93.

Hartley, Irby E., Jr., to E. I. du Pont de Nemours and Co. Yarn package support. 3,326,494, 6–20–67, Cl. 242—125.1.

Hartley, James C., 50% to G. Young. Continuous laminating press with air film lubrication. 3,340,795, 9–12–67, Cl. 100—154.

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Hartman, Robert J., and L. C. Pizzini, to Wyandotte Chemicals Corp. Preparation of long oxyalkylene chain phosphate polyols. 3,317,638, 5–2–67, Cl. 260—978.
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Hartmann, Adolf, and P. Kresse, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing linear polyesters of high molecular weight. 3,336,264, 8–15–67, Cl. 260—75.
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Schwiersch, Wolfram, and Hartwimmer. 3,336,369.
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Harvey, Douglas J., to General Motors Corp. Creep resistant solder alloy. 3,355,285, 11–28–67, Cl. 75—166.
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Harvey, Leo M., and R. W. Hilton, to Harvey Aluminum (Inc.). Attachment of an opener to the wall of a can. 3,307,737, 3–7–67, Cl. 220—54.
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Harvey, Robert E., to Goodwin of California Inc. Barbecue starter and burner apparatus. 3,295,509, 1–3–67, Cl. 126—25.
Harvey, Robert M. Door lock. 3,352,587, 11–14–67, Cl. 292—289.
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Harvey, Wildon T., to Sun Oil Co. Polyethylene of improved environmental stress cracking resistance. 3,303,152, 2–7–67, Cl. 260—28.5.
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Harvey, William T., Jr., to Atlantic Research Corp. Process and apparatus for preserving animal and plant matter. 3,313,630, 4–11–67, Cl. 99—150.
Harvill, Clarence A. Vise device. 3,322,422, 5–30–67, Cl. 269—133.
Harvith, Erwin, to Star Filter Co. Coffee filter element. 3,343,682, 9–26–67, Cl. 210—477.
Harvith, Erwin, to Star Filter Co. Coffee filter element. 3,360,-132, 12–26–67, Cl. 210—477.
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Harwood, Leopold A., to Radio Corp. of America. Insulated gate field effect transistor translating circuit. 3,307,110, 2–28–67, Cl. 325—451.
Harwood, Leopold A., to Radio Corp. of America. Parallel active circuit elements with provision for power distribution. 3,327,238, 6–20–67, Cl. 330—31.
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Hasserodt, Ulrich, K. H. G. Pilgram, and F. W. A. G. K. Korte, to Shell Oil Co. Oil-soluble alpha-hydroxymethyl phosphonate diesters. 3,318,915, 5–9–67, Cl. 260—345.9.

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Hasten, Mark, and J. T. Haub, to General Mills, Inc. Food processing apparatus and process. 3,321,146, 5–23–67, Cl. 242—47.13.

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Haszeldine, Robert N., and R. E. Banks. Method of fluorinating pentachloropyridine. 3,303,197, 2–7–67, Cl. 260—290.

Haszeldine, Robert N., J. M. Birchall, and J. H. Umfreville. Copolymers of polyfluoroarylnitrosa compounds and fluorinated olefins. 3,310,543, 3–21–67, Cl. 260—92.1.

Haszeldine, Robert N., and R. E. Banks. Fluoropyridines and derivatives. 3,317,542, 5–2–67, Cl. 260—290.

Haszeldine, Robert N., and J. M. Birchall. Fluorinated benzyl ether polymers and process for their preparation. 3,321,531, 5–23–67, Cl. 260—613.

Haszeldine, Robert N., R. E. Banks, and D. R. Taylor. Polymers containing polyfluoronitroso compounds and 1,1-difluoroallenes. 3,322,744, 5–30–67, Cl. 260—92.1.

Haszeldine, Robert N., R. E. Banks, and J. M. Birchall. Process for preparation of cyanuric chloride and pentachloropyridine. 3,359,267, 12–19–67, Cl. 260—248.

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Strasser, Joseph P., Hatch, and Knochel. 3,332,797.

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Hatch, Melvin J., to The Dow Chemical Co. Process of making composite ion exchange resin bodies. 3,332,890, 7–25–67, Cl. 260—2.1.

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Hatch, Richard W., Jr., to The Foxboro Co. Fluid analog to digital converter. 3,321,955, 5–30–67, Cl. 73—30.

Hatch, Richard W., Jr., to The Foxboro Co. Fluid logic deadband control system. 3,327,725, 6–27–67, Cl. 137—81.5.

Hatch, Richard W., Jr., to The Foxboro Co. Fluid switch system. 3,327,726, 6–27–67, Cl. 137—81.5.

Hatch, Richard W., Jr., to The Foxboro Co. Fluid logic time temperature programmer. 3,339,570, 9–5–67, Cl. 137—81.5.

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Hawley, Luther W., to The Joseph Dixon Crucible Co. Stopper assembly with sections having a series of concentric undulating interfitting ribs and grooves. 3,318,621, 5-9-67, Cl. 287—2.

Hawley, Melville S., and D. W. McLellan, to Bell Telephone Laboratories, Inc. Telephone station apparatus. 3,303,289, 2-7-67, Cl. 179—86.

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Haworth, Derek, A. C. Parikh, and J. C. Turner, to British Nylon Spinners Ltd. Varying-tone colour effects in synthetic fibre fabrics. 3,356,444, 12-5-67, Cl. 8—21.

Haworth, James G. Ball feeding device. 3,319,824, 5-16-67, Cl. 221—184.

Haws, Ernest R., and B. W. Piper, to Robert Haws Co. Expanding jamb. 3,300,899, 1-31-67, Cl. 49—321.

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Haws, Ernest R., and Piper. 3,341,985.
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Hawthorn, Robert, and J. F. Hiatt, to Collins Radio Co. Device for raising or lowering antenna mast. 3,320,703, 5-23-67, Cl. 52—123.

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Hay, Allan S., to General Electric Co. Polymeric acetylenes and process for producing the same. 3,300,456, 1-24-67, Cl. 260—88.2.

Hay, Allan S., to General Electric Co. Oxidation of phenols. 3,306,874, 2-28-67, Cl. 260—47.

Hay, Allan S., to General Electric Co. Oxidation of phenols and resulting products. 3,306,875, 2-28-67, Cl. 260—47.

Hay, Allan S., to General Electric Co. Process of making 3,4-dihydro-1-(2H)-naphthalenones. 3,310,586, 3-21-67, Cl. 260—590.

Hay, Allan S., to General Electric Co. Heteroacetylenic compounds and polymers thereof. 3,332,916, 7-25-67, Cl. 260—80.

Hay, Harold R. Apparatus for modulating the temperature within enclosures. 3,299,589, 1-24-67, Cl. 52—71.

Hay, Harold R. Process and apparatus for solar distillation. 3,314,862, 4-18-67, Cl. 203—10.

Hay, Robert B. Swinging disc valves with supplemental operator. 3,334,858, 8-8-67, Cl. 251—82.

Hay, Russell G., D. M. Jenkins, and R. A. Walde, to Gulf Research & Development Co. Process for polymerizing propylene. 3,332,925, 7-25-67, Cl. 260—93.7.

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Hayakawa, Yoshihide, to Fuji Shashin Film Kabushiki Kaisha. High edge-gradient photosensitive material. 3,345,175, 10-3-67, Cl. 96—76.

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Hayama, Motoo, to Caloric Corp. Radiant burner. 3,303,869, 2-14-67, Cl. 158—116.

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Hayashi, Teruo, H. Watanabe, and Y. Sotome, to Nippon Electric Co. Ltd. Negative resistance semiconductor device utilizing tunnel effect. 3,304,470, 2-14-67, Cl. 317—235.

Hayashi, Torahiko. Device for continuously making spherical filled encrustations with dough. 3,351,026, 11-7-67, Cl. 107—68.

Hayashi, Toshio, to Minolta Camera Kabushiki Kaisha. Device for indicating presence or absence of films in cameras. 3,335,695, 8-15-67, Cl. 116—114.

Hayashi, Tsutomu, to Hitachi, Ltd. Boiling liquid nuclear reactor having tiered, horizontally extending coolant channels. 3,346,460, 10-10-67, Cl. 176—54.

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Haydock, Raymond S., ½ each to R. Haydock, Jr., and S. L. Haydock. Hooded caster wheel assembly. 3,349,426, 10-31-67, Cl. 16—46.

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Haydock, Raymond S. 3,345,675.
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Hayes, Barry J., to Ciba Ltd. Curable compositions comprising a polyglycidal ether of a novolac resin, a tertiary amine, and a dialkyl phthalate. 3,352,813, 11-14-67, Cl. 260—31.8.

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Hayes, Brice E., to Hayes Track Appliance Co. Bumping post. 35,353,502, 11-21-67, Cl. 104—254.

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Reimer, Borge R. 3,331,259.

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Hayes, Edward J., to Kelsey-Hayes Co. Disc brake with self-energized brake shoe. 3,331,473, 7-18-67, Cl. 188—73.

Hayes, Edward J., to Kelsey-Hayes Co. Disc brake with reinforced shoe. 3,346,076, 10-10-67, Cl. 188—73.

Hayes, Edward J., and T. Sturis, to Kelsey-Hayes Co. Caliper-type disc brake with yieldable support. 3,352,382, 11-14-67, Cl. 188—73.

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Hayes, John C., to Universal Oil Products Co. Method of catalyst preparation. 3,342,751, 9-19-67, Cl. 252—466.

Hayes, John C., to Universal Oil Products Co. Production of alumina. 3,346,336, 10-10-67, Cl. 23—143.

Hayes, John C., to Universal Oil Products Co. Process for producing hydrogen and carbon with an essentially iron-free catalyst. 3,355,248, 11-28-67, Cl. 23—209.5.

Hayes, John C., D. McGrath, and V. Haensel, to Universal Oil Products Co. Manufacture of high purity alumina sol from relatively low grade aluminum. 3,340,205, 9-5-67, Cl. 252—313.

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Youden, David H. 3,338,106.
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Helm, Frederick A., to Helm Design & Mfg., Inc. Automobile luggage carrier. 3,325,068, 6–13–67, Cl. 224—42.1.

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Helmore, William, deceased (Lloyds Bank Ltd. and D. H. Johnson, executors). Mechanisms for simulating the movement of vehicles. 3,309,795, 3–21–67, Cl. 35—12.

Helms, Charles R.: *See*—
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Helms, Howard D., to Bell Telephone Laboratories, Inc. Quantization noise reduction system using chirp network prior to quantizing. 3,343,087, 9–19–67, Cl. 325—42.

Helms, John D., to Texas Instruments Inc. Successively stacking, and welding circuit conductors through insulation by using electrodes engaging one conductor. 3,353,263, 11–21–67, Cl. 29—625.

Helms, John D., to Texas Instruments Inc. Modular circuit boards. 3,356,786, 12–5–67, Cl. 174—68.5.

Helms, John D., and J. A. Shank, to Texas Instruments Inc. Welding apparatus. 3,349,217, 10–24–67, Cl. 219—110.

Helms, Paul R. Ram core molding machine. 3,343,236, 9–26–67, Cl. 25—30.

Helms, Thomas F., to Country Engineering Inc. Pull-tab closure tester. 3,318,143, 5–9–67, Cl. 73—96.

Helms, Thomas F., to Country Engineering Inc. Machine for testing can tops. 3,323,351, 6–6–67, Cl. 73—45.5.

Helmuth, Nancy A., to Phillips Petroleum Co. Biochemical fuel cell and method of generating electric current using bacteria. 3,340,094, 9–5–67, Cl. 136—86.

Helsdon, Peter B., to Marconi's Wireless Telegraph Co. Ltd. Pulse delay circuits using resonant charging with minimum current detectors. 3,319,075, 5–9–67, Cl. 307—88.5.

Helsing, Erik, and N.-E. Strom, to Allmanna Svenska Elektriska Aktiebolaget. Regulating device for electrode furnaces. 3,316,340, 4–25–67, Cl. 13—13.

Helsing, Knud J., to Westinghouse Electric Corp. Automatic controlled door for a vending machine. 3,357,133, 12–12–67, Cl. 49—25.

Helsing, Knud J., and J. E. Kalista, to Westinghouse Electric Corp. Vending machine. 3,311,207, 3–28–67, Cl. 194—10.

Helsley, Grover C., to A. H. Robins Co., Inc. N-(3-pyrrolidinyl)-phthalimide derivatives. 3,316,276, 4–25–67, Cl. 260—326.

Helton, Dennis M., and R. G. Wymer, to United States of America, Atomic Energy Commission. Electrical potential method for dispersion of metal oxide microspheres. 3,352,950, 11–14–67, Cl. 264—.5.

Helton, Vernon R., to General Motors Corp. Clothes dryer drive belt tensioner. 3,330,049, 7–11–67, Cl. 34—139.

Heltzel, Carl J. Continuous wire mesh installer and process for installing wire mesh in plastic concrete. 3,319,544, 5–16–67, Cl. 94—39.

Heltzel, Robert E. Concrete mixer. 3,317,194, 5–2–67, Cl. 259—161.

Heltzen, John H., and R. W. McCahon. Humidifier for air conditioning systems. 3,355,155, 11–28–67, Cl. 261—130.

Helvenston, Edward P., to Pittsburgh Plate Glass Co. Prevention of floor erosion of a solution mining cavity. 3,339,978, 9–5–67, Cl. 299—4.

Helvern, James O., to General Motors Corp. Pedal lift mechanism. 3,354,641, 11–28–67, Cl. 60—54.6.

Helwig, Lawrence E., to United States Steel Corp. Method of making galvannealed ferrous metal of improved solderability. 3,304,245, 2–14–67, Cl. 204—35.

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Hemenway, Philip. Multiple ball check valve. 3,320,971, 5–23–67, Cl. 137—512.1.
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Hemfort, Heinz, Jr., to Westfalia Separator A.G. Apparatus for signaling a predetermined level in the sludge chamber of a centrifugal drum. 3,301,476, 1–31–67, Cl. 233—20.
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Hemmer, Ferdinand J., to Melpar, Inc. Thin film circuit vacuum processing facility. 3,314,395, 4–18–67, Cl. 118—49.
Hemmie, Dale L., to Winegard Co. Balun suitable for use throughout the ultra high frequency television bands. 3,357,023, 12–5–67, Cl. 343—821.
Hemmingway, Hugh L., to Union Oil Co. of California. Jet fuel containing anti-wear aromatic diester. 3,320,041, 5–16–67, Cl. 44—58.
Hempel, Herman P., to C. P. Claire & Co. Spherical contact structure for sealed mercury switches. 3,331,037, 7–11–67, Cl. 335—58.
Hempfling, Gerald L., ½ to J. E. Van Noy. Package. 3,315,-868, 4–25–67, Cl. 229—31.
Hemphill, Kent W., and J. P. Donnolo, to Xerox Corp. Motor speed control utilizing light sensitive conductive and resistive elements. 3,351,831, 11–7–67, Cl. 318—77.
Hemphill, William B.; ½ to Hearst Publishing Co., Inc. Automatic sheet splicing apparatus. 3,314,626, 4–18–67, Cl. 242—58.2.
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Hemstock, Glen A., and R. J. Bergmann, to Minerals & Chemicals Philipp Corp. Paper coating clay and method for treating the same. 3,301,691, 1–31–67, Cl. 106—72.
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Hemstreet, Russell A., to Union Carbide Corp. Adsorbent-coated thermal panels. 3,338,034, 8–29–67, Cl. 55—269.
Hemstreet, Russell A., and D. M. Ruttenbur, to Union Carbide Corp. Process for adsorbing gases. 3,309,844, 3–21–67, Cl. 55—75.
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Hemsworth, Martin C., to General Electric Co. Multi-nozzle fuel delivery system. 3,335,567, 8–15–67, Cl. 60—39.74.
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Henderson, Courtland M., and E. R. Beaver, Jr., to Monsanto Co. Two-phase thermo-electric body comprising a boron-carbon matrix. 3,343,373, 9–26–67, Cl. 62—3.
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Henderson, Eulas W., to Phillips Petroleum Co. Production of oil impregnated carbon black. 3,340,080, 9–5–67, Cl. 106—307.
Henderson, George A. Circular saw with scrap disintegrator. 3,358,720, 12–19–67, Cl. 143—133.
Henderson, Harold P. Protective and decorative cap for screw and bolt heads. 3,298,272, 1–17–67, Cl. 85—53.
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Henderson, Homer I. Drilling bit. 3,308,896, 3–14–67, Cl. 175—330.
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Henderson, Ian H. S., and S. G. Ladan, to Her Majesty the Queen in right of Canada as represented by the Minister of National Defence. Nickel cadmium batteries. 3,326,721, 6–20–67, Cl. 136—24.
Henderson, James H., W. K. Meyer, and J. J. Taber, to Gulf Research & Development Co. Miscible drive secondary oil recovery process. 3,330,345, 7–11–67, Cl. 166—9.
Henderson, Jerald M., to The Regents of the University of California. Mass flowmeter for granular materials. 3,331,-244, 7–18–67, Cl. 73—194.
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Henderson, Martin C., to Bunker-Ramo Corp. Line drawing system. 3,333,147, 7–25–67, Cl. 315—22.
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Henderson, Nels A. Ice hole flaring tool. 3,336,989, 8–22–67, Cl. 175—18.
Henderson, Richard J., to Republic Mfg. Co. Two-position, four-way pilot operated valve. Re. 26,245, 8–1–67, Cl. 137—625.68.
Henderson, Richard J., to Republic Mfg. Co. Three-way, two-position valve. 3,324,888, 6–13–67, Cl. 137—625.68.
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Hendricks, George D., and G. E. Fieser, to E. W. Bliss Co. Traffic controllers employing static, logic control elements. Re. 26,150, 1–31–67, Cl. 340—37.
Hendricks, James C., to McGill Metal Products Co. Perforating device. 3,303,564, 2–14–67, Cl. 30—358.
Hendricks, Sidney J., to Prekast Fireplace Mfg. Co. Precast fireplace, methods of manufacture and erection. 3,301,249, 1–31–67, Cl. 126—120.
Hendricks, William L. Camera tension anchor. 3,317,169, 5–2–67, Cl. 248—188.2.
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Hendrickson, Harold S., deceased, by A. Hendrickson, administratrix. Dipole antenna including ferrite sleeves about the medial portions of its radiating elements. 3,302,208, 1–31–67, Cl. 343—787.
Hendrickson, Jay D., and H. H. Osterlund, to C. W. C. Fisheries, Inc. Apparatus for cleaning crabs. 3,299,467, 1–24–67, Cl. 17—2.
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Hendrickson, Robert T., to Hendrickson Mfg. Co. Suspension system for vehicles. 3,297,339, 1–10–67, Cl. 280—104.5.
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Hendrickson, Yngve G., to Chevron Research Co. Imides of arene polyamines used as lubricating oil additives. 3,306,-852, 2–28–67, Cl. 252—32.7.
Hendrickx, Andreas J. J., and A. M. P. Hectors, to Chemische Fabriek L. Van Der Grinten N.V. Diazotype material. 3,338,-713, 8–29–67, Cl. 96—91.
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Hendriks, Petrus F. A. M., to Stamicarbon N.V. Melting device and process for melting urea. 3,332,413, 7–25–67, Cl. 126—343.5.
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Hendrix, Gertrude. Educational system. 3,330,053, 7–11–67, Cl. 35—30.
Hendrix, Lloyd T., to Richfield Oil Corp. Atmospheric L.P.G. storage tank and process. 3,298,186, 1–17–67, Cl. 62—50.
Hendrix, Lloyd T., to Atlantic Richfield Co. Steam generator. 3,313,274, 4–11–67, Cl. 122—7.
Hendrix, Lloyd T., to Atlantic Richfield Co. Well effluent separation apparatus. 3,335,549, 8–15–67, Cl. 55—178.
Hendrix, Lloyd T., to Atlantic Richfield Co. Hydrate removal from wet natural gas. 3,354,563, 11–28–67, Cl. 62—12.
Hendrix, Lloyd T., to Atlantic Richfield Co. Hydrate removal from wet natural gas. 3,354,663, 11–28–67, Cl. 62—12.
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Henes, Richard W., to Henes Mfg. Co. Means and method for producing a dry homogeneously mixed hydrogen and oxygen fuel gas for torches. 3,356,600, 12–5–67, Cl. 204—129.
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Henke, Alfred M., and R. T. Sebulsky, to Gulf Research & Development Co. Process for alkylating aromatic hydrocarbons using supported heteropoly acid catalyst. 3,346,-657, 10–10–67, Cl. 260—671.
Henke, Alfred M., B. K. Schmid, and J. R. Strom, to Gulf Research & Development Co. Hydrocracking with a presulfided tungsten oxide composite catalyst from the group comprising of silver, zinc or thorium on a siliceous carrier. 3,349,025, 10–24–67, Cl. 208—111.
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Henley, Edward J., to M. P. Moller, Inc. Stereophonic electronic musical instrument. 3,342,923, 9-19-67, Cl. 84—1.24.

Henley, John W., to The Earle-Picker Co. High deflection spring or bumper. 3,305,227, 2-21-67, Cl. 267—1.

Henley, Virgil E., to The General Tire & Rubber Co. Method of and apparatus for butt splicing coated fabric. 3,325,328, 6-13-67, Cl. 156—157.

Henley, William O., to Mobil Oil Corp. Lubricating oil compositions containing as a detergent a beta-(alkylamino) alkyl alkenylphenyl ether. 3,340,192, 9-5-67, Cl. 252—51.5.

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Humphrey, Laurence E., Addis, and Hess. 3,333,050.
Hess, Richard A., to Air Products and Chemical Inc. Method of forming a fuel cell electrode. 3,309,231, 3–14–67, Cl. 136—122.
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Hesse, Gerhard, and W. Dietel, to VEB Carl Zeiss Jena. Hollow bodies of electrostrictive material. 3,355,603, 11–28–67, Cl. 310—9.7.
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Hessinger, Philip S., and A. R. Sheets, to National Beryllia Corp. Microelectronic package. 3,312,771, 4–4–67, Cl. 174—52.
Hessinger, Philip S., and T. W. Weber, to Mycalex Corp. of America. Method of making synthetic mica and ceramoplastic materials. 3,338,692, 8–29–67, Cl. 65—18.
Hession, John W., Jr., ⅓ each to G. D. Resler and M. A. Hession. Method and composition for creating aerosol dispersions. 3,310,466, 3–21–67, Cl. 167—39.
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Monroe, Joseph W., Grace, and Hessler. 3,320,795.
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Hester, Jackson B., Jr., to The Upjohn Co. 3,4,5,6-tetrahydro-1H-azepino(4,3,2-cd)indoles. 3,314,942, 4–18–67, Cl. 260—239.3.
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Hester, Jackson B., Jr., to The Upjohn Co. 4-(indol-3-yl)-hexahydro-1H-azepines and their method of preparation. 3,347,866, 10–17–67, Cl. 260—326.15.
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Heth, Sherman C., E. T. Lewis, and M. Ronning, to Jacobsen Mfg. Co. Turf groomer. 3,331,195, 7–18–67, Cl. 56—24.
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Hettich, Hugo. Securement between oscillation-imparting coil spring and balance member of timepiece. 3,324,645, 6–13–67, Cl. 58—115.
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Hetzel, Max, to Centre Electronique Horloger S.A. Electronic watch. 3,328,657, 6–27–67, Cl. 318—128.
Hetzel, Max, and R. Fossard, to Centre Electronique Horloger S.A. Winding machine. 3,360,213, 12–26–67, Cl. 242—149.
Hetzler, Lewis R., to General Motors Corp. Voltage regulator for generators. 3,332,003, 7–18–67, Cl. 322—28.
Heubl, Walter. Bottle closure. 3,300,074, 1–24–67, Cl. 215—90.
Huebl, Walter. Bottle stopper. 3,343,700, 9–26–67, Cl. 215—41.
Heubusch, Henry P., to Bell Aerospace Corp. Hydrazine based solid propellants. 3,314,837, 4–18–67, Cl. 149—36.
Heuchling, Theodore P., and R. E. Kronauer, to Arthur D. Little, Inc. Reciprocating actuator. 3,312,842, 4–4–67, Cl. 310—17.
Heuck, Claus: *See*—
Mauz, Otto, and Heuck. 3,360,499.
Heuer, Charles H., to Zenith Radio Corp. Color television color killer with variable sensitivity. 3,308,231, 3–7–67, Cl. 178—5.4.
Heuer, Hans, to Olympia Werke AG. Punching apparatus. 3,351,740, 11–7–67, Cl. 219—384.
Heuer, Hans, to Olympia Werke AG. Electromechanical counting chain arrangement. 3,355,577, 11–28–67, Cl. 235—92.
Heuer, Russell P., to General Refractories Co. Preparation of magnesium oxide from magnesite. 3,302,997, 2–7–67, Cl. 23—201.
Heuer, Russell P., to General Refractories Co. Process of beneficiating magnesite. 3,305,302, 2–21–67, Cl. 23—67.
Heumann, Frederick G., to Owens-Corning Fiberglas Corp. Twister apparatus and driving means therefor. 3,352,095, 11–14–67, Cl. 57—105.
Heupgen, Marcel, to Forges et Ateliers de Constructions Electriques. Flexible metallic sheaths for cables. 3,314,451, 4–18–67, Cl. 138—177.
Heurtey, Societe Anonyme: *See*—
Guingand, Jean R. 3,309,073.
Heuse, Otto, M. Boldt, and R. Wirtz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for electrochemically oxidizing ω-hydroxy-carboxylic acids to α,ω-dicarboxylic acids. 3,316,162, 4–25–67, Cl. 204—79.
Heuser, Elliott G., to W. H. Brady Co. Adhesive labels with structural alignment means. 3,315,387, 4–25–67, Cl. 40—2.
Heuser, Ewald: *See*—
Jordan, Friedrich, and Heuser. 3,349,893.
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Heusser, Jean, to Hommel A.G. Diethylaminoethoxyethyl ester of α-phenylbutyric acid and salts thereof. 3,349,114, 10–24–67, Cl. 260—477.
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Heuze, Bernard M. L., to Societe d'Etudes contre la Corrosin (S.E.C.C.O.). Method and structure for connecting electrodes to feed cables. 3,326,791, 6–20–67, Cl. 204—196.
Heuze, Bernard M. L., to Societe d'Etudes Contre la Corrosion. Device for checking cathodic protection. 3,351,545, 11–7–67, Cl. 204—196.
Hevert, Carl H., W. J. Krupick, and P. E. Seifried, to General Precision, Inc. Two-axis gyro. 3,323,375, 6–6–67, Cl. 74—5.
Hewett, Colin L., and G. F. Woods, to Organon Inc. 7,16-dialkyl-pregnanes. 3,314,976, 4–18–67, Cl. 260—397.3
Hewett, Colin L., and G. F. Woods, to Organon Inc. 16-alkyl pregnane derivatives and process for the preparation thereof. 3,325,518, 6–13–67, Cl. 260—397.4.
Hewett, Major W., and L. L. Meyer, to General Electric Co Optical arrangement in hot box detection apparatus 3,303,340, 2–7–67, Cl. 246—169.
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Hewett, William A., to International Business Machines Corp. Ethylenically unsaturated carbazole polymeric materials and methods of making the same. 3,312,673, 4–4–67, Cl. 260—80.3.
Hewett, William A., and A. H. Sporer, to International Business Machines Corp. Photoconductors and method of making the same. 3,341,472, 9–12–67, Cl. 252—501.
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Hewitt, Alfred G., and H. P. Eichin, to Union Carbide Corp. Method of producing flexible bag. 3,334,553, 8–8–67, Cl. 93—35.
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Hertzler, Samuel H., Jr., to American Components, Inc. Test fixture for electrical components having independently adjustable jaw pairs. 3,340,473, 9–5–67, Cl. 324—158.

Hertzsch, Wolfgang: *See*—
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Hervey, David E., to Industrial Institution International, Ltd. Ground storage means for structure heating and cooling systems. 3,339,629, 9–5–67, Cl. 165—45.

Hervig, Harold C., to Minnesota Mining and Mfg. Co. Adjustable centering spacer. 3,296,688, 1–10–67, Cl. 29—272.

Hervig, Harold C., to Minnesota Mining and Mfg. Co. Electrical connector strap. 3,324,234, 6–6–67, Cl. 174—135.

Herweg, Jack L. Musician's lip protector. 3,327,580, 6–27–67, Cl. 84—453.

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Herzig, Albert M. Closure for collapsible tube. 3,315,849, 4–25–67, Cl. 222—491.

Herzig, Karl H., to Brown, Boveri & Cie Aktiengesellschaft. High voltage insulator filled with semiconductive foam containing gas under superatmospheric pressure. 3,325,584, 6–13–67, Cl. 174—30.

Herzog, Carl. Shafting having flats and method of producing such flats and shafting. 3,304,761, 2–21–67, Cl. 72—377.

Herzog, Ernst G.: *See*—
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Herzog, William E., to Collins Radio Co. A.C. ripple and noise reduction without increasing current drain. 3,300,740, 1–24–67, Cl. 333—79.

Heseltine, Donald W., and L. L. Lincoln, to Eastman Kodak Co. Class of cationic merocyanine dyes. 3,311,618, 3–28–67, Cl. 260—240.

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Heskestad, Gunnar, to American Standard Inc. Jet agitation in a washing machine. 3,358,477, 12–19–67, Cl. 68—184.

Heskestad, Gunnar, to American Standard Inc. Multi-jet agitation of wash solution in a washing machine. 3,358,478, 12–19–67, Cl. 68—184.

Heskestad, Gunnar, to American Standard Inc. Fluid dynamics of a bluff body. 3,360,221, 12–26–67, Cl. 244—42.

Heskett, Merle W.: *See*—
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Hesler, Warren E., and A. W. Eckstrom, to Blaw-Knox Co. Multiple effect evaporator structure. 3,354,932, 11–28–67 Cl. 159—17.

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Hesp, Claron E., and M. D. Ratliff, to Farm Chemicals of Oregon, Inc. Runner supported spray boom having mobile supply means. 3,310,239, 3–21–67, Cl. 239—169.

Hess, Calvin J., and W. M. Perry, to Bethlehem Steel Co. Removal of aromatic compounds from coke oven gas. 3,312,749, 4–4–67, Cl. 260—674.

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Hess, Earl H., to Victor F. Weaver Inc. Processes for preparing blood meal. 3,352,685, 11–14–67, Cl. 99—7.

Hess, Emerson E. Passing signal system for motor vehicles. 3,308,427, 3–7–67, Cl. 340—78.

Hess, Frederic O., to Selas Corp. of America. Metal heating. 3,345,846, 10–10–67, Cl. 72—200.

Hess, Frederick G.: *See*—
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Hess, Frederick G., to Cities Service Oil Co. Fuel and lubricant additives. 3,346,492, 10–10–67, Cl. 252—32.5.

Hess, Fritz K., to Esso Research and Engineering Co. Denitrification of hydrocarbons. 3,309,309, 3–14–67, Cl. 208—254.

Hess, Fritz K., to Esso Research and Engineering Co. Denitrification with cupric chloride and an alcohol. 3,326,798, 6–20–67, Cl. 208—254.

Hess, Hans-Jürgen E., to Chas. Pfizer & Co., Inc. N-carbazoylamino acid intermediates for polypeptides. 3,330,857, 7–11–67, Cl. 260—471.

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Hess, Howard V.: *See*—
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Hess, Howard V., to Texaco Inc. Removing water from brine. 3,316,172, 4–25–67, Cl. 210—59.

Hess, Howard V., and F. E. Guptill, Jr., to Texaco Inc. Removing water from brine. 3,308,063, 3–7–67, Cl. 210—59.

Hess, Howard V., and F. E. Guptill, Jr., to Texaco Inc. Recovery of fresh water from brine. 3,318,805, 5–9–67, Cl. 210—21.

Hess, Howard V., F. E. Guptill, Jr., and N. D. Carter, to Texaco Inc. Process for extracting water from brine and generating steam with a hot hydrocarbon liquid. 3,325,400, 6–13–67, Cl. 210—21.

Hess, Howard V., and F. E. Guptill, Jr., to Texaco Inc. Recovery of desalted water form brine. 3,350,299, 10–31–67, Cl. 210—22.

Hess, Howard V., and F. E. Guptill, Jr., to Texaco Inc. Recovery of salt-free water form brine. 3,350,300, 10–31–67, Cl. 210—22.

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Hess, Kenneth G., to Polar Ware Co. Press guard. 3,300,009, 1–24–67, Cl. 192—130.

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Hess, Raymond C.: *See*—
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Humphrey, Laurence E., Addis, and Hess. 3,333,049.
Humphrey, Laurence E., Addis, and Hess. 3,333,050.

Hess, Richard A., to Air Products and Chemical Inc. Method of forming a fuel cell electrode. 3,309,231, 3–14–67, Cl. 136—122.

Hess, Richard A., and C. C. Liang, to Air Products and Chemicals, Inc., and Northern Natural Gas Co. Fuel cell electrode having surface co-deposit of platinum, tin and ruthenium. 3,340,097, 9–5–67, Cl. 136—120.

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Hess, Robert W., A. M. Thomsen, F. Porter, and J. W. Anderson; ½ each to Georgia Pacific Corp., and Allied Chemical Corp. Converting lignocellulose materials into yeast containing stock feed. 3,314,797, 4–18–67, Cl. 99—9.

Hess, Thurlow H., Sr., and W. D. Brougher; said Hess assor. to said Brougher, d.b.a. Brocker Mfg. & Supply Co. Bar handling and shearing machine. 3,304,824, 2–21–67, Cl. 83—104.

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Hess, Walter, to Schloemann Aktiengesellschaft. Continuous casting plant. 3,351,124, 11–7–67, Cl. 164—274.

Hess, Walter, and F. Wolf, to Schloemann Aktiengesellschaft. Dummy bar with a separable dummy bar head. 3,324,934, 6–13–67, Cl. 164—274.

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Hesse Carriage Co.: *See*—
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Miller, Eldon F. 3,352,594.

Hesse, Gerhard, and W. Dietel, to VEB Carl Zeiss Jena. Hollow bodies of electrostrictive material. 3,355,603, 11–28–67, Cl. 310—9.7.

Hesse, Kenneth R., to Hughes Aircraft Co. Direct-view storage tube and method of erasure. 3,331,983, 7–18–67, Cl. 315—12.

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Hesselholt, Jens, to Pedershaab Maskinfabrik A/S. Apparatus for moulding concrete pipes having a circumferential recess in the outer spigot end surface. 3,341,910, 9–19–67, Cl 25—39.

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Hessinger, Philip S., and A. R. Sheets, to National Beryllia Corp. Microelectronic package. 3,312,771, 4–4–67, Cl. 174—52.

Hessinger, Philip S., and T. W. Weber, to Mycalex Corp. of America. Method of making synthetic mica and ceramoplastic materials. 3,338,692, 8–29–67, Cl. 65—18.

Hession, John W., Jr., ⅓ each to G. D. Besler and M. A. Hession. Method and composition for creating aerosol dispersions. 3,310,466, 3–21–67, Cl. 167—39.

Hession, Mark A., Assoc.: *See*—
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Hessler, John, Jr., to International Telephone and Telegraph Corp. Non-contacting line stretcher. 3,309,629, 3–14–67, Cl. 333—31.

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Monroe, Joseph W., Grace, and Hessler. 3,320,795.

Hessler, Richard O., to Thiokol Chemical Corp. Method and apparatus for inducing fatigue cracks in structural materials. 3,353,401, 11–21–67, Cl. 73—37.

Hesston Corp., Inc.: *See*—
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Hester, Carl T.: *See*—
Willman, Bertram T., and Hester. 3,314,481.

Hester, George T.: *See*—
Hester, James H., G. T. and R. L. 3,335,534.

Hester, Harry D.: *See*—
Black, Lawrence W. 3,300,405.

Hester, Jackson B., Jr., to The Upjohn Co. 3,4,5,6-tetrahydro-1H-azepino(4,3,2-cd)indoles. 3,314,942, 4–18–67, Cl. 260—239.3.

Hester, Jackson B., Jr., to The Upjohn Co. Novel 1,3,4,5-tetrahydropyrrolo[4,3,2-de]quinolines. 3,330,835, 7–11–67, Cl. 260—287.

Hester, Jackson B., Jr., to The Upjohn Co. 4-(indol-3-yl)-hexahydro-1H-azepines and their method of preparation. 3,347,866, 10–17–67, Cl. 260—326.15.

Hester, Jackson B., Jr., and J. Szmuszkovicz, to The Upjohn Co. Polyhydro - 6-methoxy-1-(3,4,5-trimethoxyphenyl)-9H-pyrido[3,4-b]indoles. 3,345,376, 10–3–67, Cl. 260—296.

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Beard, Ralph L., and Hester. 3,351,339.

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Hester, James H., G. T. and R. L. 3,335,534.

Hester, Wesley W. Necklace clasp. 3,350,753, 11–7–67, Cl. 24—239.

Heston, Eugene E., W. E. Kmentt, H. J. Robins, and J. V. Stroup, to NRM Corp. Pelletizer. 3,317,957, 5–9–67, Cl. 18—12.

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Heth, Sherman C., E. T. Lewis, and M. Ronning, to Jacobsen Mfg. Co. Turf groomer. 3,331,195, 7–18–67, Cl. 56—24.

Hetherington, Alexander C., to Stauffer Chemical Co. Conducting tow line structure. 3,304,364, 2–14–67, Cl. 174—101.5.

Hetherington, James S., to Varian Associates. Getter ion vacuum pump. 3,309,010, 3–14–67, Cl. 230—69.

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Hetteix, Jacques, deceased, by I. M. Hetteix, executrix, to Sperry Rand Corp. High speed bar printer. 3,331,317, 7–18–67, Cl. 101—93.

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Oxenrider, Bryce C., and Hetterly. 3,297,634.

Hetterscheid, Wilhelmus T. H., and J. J. Reichgelt, to North American Philips Co., Inc. Transistor circuit for developing a high voltage and including short-circuit protection means. 3,343,061, 9–19–67, Cl. 321—2.

Hettich, Alfred, and K. Paule, to Robert Bosch, G.m.b.H. Power driven device for tightening and loosening of screws or the like. 3,329,185, 7–4–67, Cl. 144—32.

Hettich, Hugo. Securement between oscillation-imparting coil spring and balance member of timepiece. 3,324,645, 6–13–67, Cl. 58—115.

Hettick, George R.: *See*—
Bauer, Robert D., Ledbetter, and Hettick. 3,324,010.
Little, Donald M., and Hettick. 3,340,185.
Van Poole, Joe, and Hettick. 3,318,804.

Hettinger, Donald M., and R. L. Martin, to The Weatherproof Products Corp. Power apparatus for windows or the like. 3,324,594, 6–13–67, Cl. 49—28.

Hettler, Robert F.: *See*—
Shelburg, William D., and Hettler. 3,353,991.

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Tombari, Aldo L. 3,328,854.
Tombari, Aldo L. 3,337,101.
Tombari, Aldo L. 3,342,192.

Hetzel, Marvin E., and J. J. Cerenka. Chain form clip. 3,338,689, 8–29–67, Cl. 29—193.5.

Hetzel, Max, to Centre Electronique Horloger S.A. Electronic watch. 3,328,657, 6–27–67, Cl. 318—128.

Hetzel, Max, and R. Fossard, to Centre Electronique Horloger S.A. Winding machine. 3,360,213, 12–26–67, Cl. 242—149.

Hetzler, Lewis R., to General Motors Corp. Voltage regulator for generators. 3,332,003, 7–18–67, Cl. 322—28.

Heubl, Walter. Bottle closure. 3,300,074, 1–24–67, Cl. 215—90.

Huebl, Walter. Bottle stopper. 3,343,700, 9–26–67, Cl. 215—41.

Heubusch, Henry P., to Bell Aerospace Corp. Hydrazine based solid propellants. 3,314,837, 4–18–67, Cl. 149—36.

Heuchling, Theodore P., and R. E. Kronauer, to Arthur D. Little, Inc. Reciprocating actuator. 3,312,842, 4–4–67, Cl. 310—17.

Heuck, Claus: *See*—
Mauz, Otto, and Heuck. 3,360,499.

Heuer, Charles H., to Zenith Radio Corp. Color television color killer with variable sensitivity. 3,308,231, 3–7–67, Cl. 178—5.4.

Heuer, Hans, to Olympia Werke AG. Punching apparatus. 3,351,740, 11–7–67, Cl. 219—384.

Heuer, Hans, to Olympia Werke AG. Electromechanical counting chain arrangement. 3,355,577, 11–28–67, Cl. 235—92.

Heuer, Russell P., to General Refractories Co. Preparation of magnesium oxide from magnesite. 3,302,997, 2–7–67, Cl. 23—201.

Heuer, Russell P., to General Refractories Co. Process of beneficiating magnesite. 3,305,302, 2–21–67, Cl. 23—67.

Heumann, Frederick G., to Owens-Corning Fiberglas Corp. Twister apparatus and driving means therefor. 3,352,095, 11–14–67, Cl. 57—105.

Heupgen, Marcel, to Forges et Ateliers de Constructions Electriques. Flexible metallic sheaths for cables. 3,314,451, 4–18–67, Cl. 138—177.

Heurtey, Societe Anonyme: *See*—
Guingand, Jean R. 3,309,073.

Heuse, Otto, M. Boldt, and R. Wirtz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for electrochemically oxidizing ω-hydroxy-carboxylic acids to α,ω-dicarboxylic acids. 3,316,162, 4–25–67, Cl. 204—79.

Heuser, Elliott G., to W. H. Brady Co. Adhesive labels with structural alignment means. 3,315,387, 4–25–67, Cl. 40—2.

Heuser, Ewald: *See*—
Jordan, Friedrich, and Heuser. 3,349,893.

Heuser, Leon J.: *See*—
Donovick, Richard, Heuser, and Dolliver. 3,345,375.

Heusler, Karl: *See*—
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Hill, Harold W., Jr., and J. T. Edmonds, Jr., to Phillips Petroleum Co. Process for production of diaryl and di(alkaryl)sulfides. 3,322,834, 5–30–67, Cl. 260—609.

Hill, Harold W., Jr., S. L. Kwolek, and W. Sweeny, to E. I. du Pont de Nemours and Co. Aromatic copolyamides. 3,354,127, 11–21–67, Cl. 260—78.

Hill, Harry W., to Millspaugh Ltd. Adjustable drainage element for Fourdrinier paper machines. 3,323,982, 6–6–67, Cl. 162—352.

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Hill, Harvey J., to Roberts Consolidated Industries, Inc. Anchor clip for carpet gripper strip. 3,325,852, 6–20–67, Cl. 16—16.

Hill, Harvey J., to Roberts Consolidated Industries, Inc. Carpet gripper. 3,353,204, 11–21–67, Cl. 16—16.

Hill, Henry A., to The Borden Co. Curing furfuryl-alcohol-modified urea formaldehyde condensates. 3,297,611, 1–10–67, Cl. 260—29.4.

Hill, Henry R. Borehole drilling. 3,307,644, 3–7–67, Cl. 175—245.

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Hill, Howard M. Dispensing container. 3,357,627, 12–12–67, Cl. 229—17.

Hill, Ira D., to Sun Oil Co. Microbial oxidation of polynuclear aromatic hydrocarbons. 3,318,781, 5–9–67, Cl. 195—28.

Hill, James A. Anti-slip bar for high chairs. 3,311,410, 3–28–67, Cl. 297—423.

Hill, James E., and M. C. Podgorski, to F & F Enterprises, Inc. Spring operated switch having latching means. 3,312,809, 4–4–67, Cl. 200—169.

Hill, James E., and M. C. Podgorski, to F&F Enterprises, Inc. Shorting and non-shorting switch contact constructions. 3,330,930, 7–11–67, Cl. 200—166.

Hill, James E., and M. C. Podgorski, to F & F Enterprises, Inc. Switch construction with attached light. 3,334,209, 8–1–67, Cl. 200—167.

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Hill, James S., to Engelhard Industries, Inc. Metal composition for powder metallurgy moldings and method for production. 3,333,950, 8–1–67, Cl. 75—.5.

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Hill, Thomas, to British Hydrocarbon Chemicals Ltd. Catalyst, preparation thereof, and polymerization process utilizing said catalyst. 3,349,067, 10–24–67, Cl. 260—88.2.

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Hill, William C., and D. J. Birmingham, to General Electric Co. Buffering system for data communication. 3,333,250, 7–25–67, Cl. 340—172.5.

Hill, William F., Jr., to Union Carbide Corp. Polyvinyl acetate plasticized with succinimide. 3,316,196, 4–25–67, Cl. 260—29.6.

Hill, William F., Jr., to Union Carbide Corp. Polyvinyl acetate compositions. 3,316,197, 4–25–67, Cl. 260—29.6.

Hill, William G. Film hanger device for processing photographic sheet film. 3,316,827, 5–2–67, Cl. 95—100.

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Hillman, George L. Portable leaf burning apparatus. 3,329,108, 7–4–67, Cl. 110—18.

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Lamburn, Alan S., Abbott, and Hillman. 3,334,530.

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Hillman, Kurt, to General Telephone and Electronics Laboratories, Inc. Control signal generator employing a tunnel diode to regulate the amplitude of the control signal. 3,327,139, 6–20–67, Cl. 307—88.5.

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Hillman, Melville E. D., to E. I. du Pont de Nemours and Co. Diboradioxanes and process for preparing diboradioxanes and boronic acids. 3,317,580, 5–2–67, Cl. 260—462.

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Hills, William H., E. K. McIntosh, and J. R. Williams, to Monsanto Co. Yarn treating apparatus. 3,303,548, 2-14-67, Cl. 28—61.

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Hillyar-Russ, Geoffrey, and M. Newman, to Coal Industry (Patents) Ltd. Apparatus for measuring the flow of material. 3,295,213, 1-3-67, Cl. 33—121.

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Hilpert, Conrad R., to Twin Disc Clutch Co. Control for a power drive system and including shift-restricting inhibitors for a reversible transmission. 3,348,644, 10-24-67, Cl. 192—4.

Hilpert, Conrad R., to Twin Disc Clutch Co. Friction clutch having centrifugally operated valve means. 3,352,395, 11-14-67, Cl. 192—103.

Hilpert, Conrad R., to Twin Disc, Inc. Friction clutch having centrifugally operated ball valve means. 3,358,796, 12-19-67, Cl. 192—3.33.

Hilpert, Conrad R., to Twin Disc, Inc. Hydraulically actuated friction clutch having torque control means. 3,360,087, 12-26-67, Cl. 192—56.

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Hilstrom, Hollis R. Device for feeding a work piece into a fabricating machine. 3,305,103, 2-21-67, Cl. 214—1.5.

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Hilsum, Cyril, to National Research Development Corp. Determining atmospheric pollution by the detection of back-scattered infrared radiation. 3,317,730, 5-2-67, Cl. 250—83.3.

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Hilzen, Hy. Electrical lighting apparatus. 3,321,615, 5-23-67, Cl. 240—3.

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Himes, Don L., and R. M. Aughey, to International Telephone and Telegraph Corp. Solid state identification keyer. 3,300,582, 1-24-67, Cl. 178—79.

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Himes, William A., and A. E. Graham, to Newport News Shipbuilding and Dry Dock Co. Automatic dump valve. 3,318,327, 5-9-67, Cl. 137—527.8.

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Himmelmann, Wolfgang, W. Krauss, and A. Riebel, to Agfa Aktiengesellschaft. Water-insoluble protective coatings for photographic materials. 3,322,555, 5-30-67, Cl. 117—33.3.

Himmelstein, Sydney, H. S. Knaack, and R. S. Tveter; Knaack and Tveter assors., to S. Himmelstein. Multi-channel rotary transformer. 3,317,873, 5-2-67, Cl. 336—120.

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Holmes, Allie B. Engine cooling system with vacuum relief device therein. 3,307,620, 3–7–67, Cl. 165—51.

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Holmes, George S., to Continental Can Co., Inc. Method of forming a separator. 3,339,466, 9–5–67, Cl. 93—37.

Holmes, Gerard P., and J. W. Murphy, to American Cyanamid Co. Combination reel and label for surgical sutures. 3,357,550, 12–12–67, Cl. 206—63.3.

Holmes, Jack H., to FMC Corp. Method and apparatus for handling articles. 3,300,021, 1–24–67, Cl. 198—33.

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Holtschmidt, Hans, and H. Tarnow, to Farbenfabriken Bayer Aktiengesellschaft. Highly chlorinated nitrogen heterocyclic compounds and process for producing the same. 3,335,-151, 8-8-67, Cl. 260—319.1.

Holtschmidt, Hans, and W. Zecher, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of imidocarbonyl chlorides and similar compounds containing nitrogen and chlorine combined in an —N=CCl— radical. 3,347,762, 10-17-67, Cl. 204—158.

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Holz, William G. Traction-face arrangement for drum-type pulleys. 3,354,735, 11-28-67, Cl. 74—230.7.

Holzer, Walter. Device for making a momentary contact. 3,300,595, 1-24-67, Cl. 200—19.

Holzer, Walter. Escapement between an energy storage means and a driving pinion of stepwise intermittent movement. 3,326,052, 6-20-67, Cl. 74—1.5.

Holzer, Walter. Drive for switching means. 3,336,814, 8-22-67, Cl. 74—461.

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Holzhauer, William T., and G. F. Ort, to Esso Research and Engineering Co. Structure for controlling the flow of bulk solids. 3,319,768, 5-16-67, Cl. 198—68.

Holzl, Robert A., to San Fernando Laboratories. Gaseous deposition method of making a thermocouple probe. 3,343,-589, 9-26-67, Cl. 164—46.

Holzman, Allen L., to United States of America, Navy. Means for vaporizing liquid propellants. 3,295,323, 1-3-67, Cl. 60—251.

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Holzwarth, Herbert, H. Leysieffer, and E. Gabler, to Siemens & Halske Aktiengesellschaft. Frequency modulator having two varactor diode oscillators, one weakly coupled the other strongly coupled to the mixing stage. 3,307,119, 2-28-67, Cl. 332—18.

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Hoornstra, Clayton W., and P. R. Handt, to The Dow Chemical Co. 3,316,179, 4–25–67, Cl. 252—147.

Hoornstra, Clayton W., and J. A. Easley, to The Dow Chemical Co. Etching bath and method of etching. 3,337,462, 8–22–67, Cl. 252—79.2.

Hoosier Crown Corp.: *See*—
Caviglia, Enzo. 3,300,072.

Hooten, Merle G., to United States of America, Army. Repeater fault location. 3,297,833, 1–10–67, Cl. 179—175.31.

Hooton, John R.: *See*—
Van de Castle, John F., Hooton, and Baldwin. 3,332,924.

Hoover Ball and Bearing Co.: *See*—
Cannon, Robert B. 3,343,725.
Folta, John J. 3,319,667.
Greenquist, Duane R. 3,329,317.
Hackbarth, Paul J., and Doty. 3,303,727.
Martin, Merritt W., Jr. 3,335,457.
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Hoover Co., The: *See*—
Beach, Justice H. 3,309,113.
Beach, Justice H. 3,327,734.
Berger, Christian D. 3,302,043.
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Ziegler, Brandt F. 3,333,288.

Hoover, D. Eugene, ½ to G. E. Mickel, Jr. Adjustable cable clamp. 3,354,518, 11–28–67, Cl. 24—134.

Hoover, Dillon B., and B. B. Winer, to Westinghouse Electric Corp. Rotating rectifier exciter ground detection arrangement. 3,303,410, 2–7–67, Cl. 322—99.

Hoover, Howard A., to CF & I Steel Corp. Applicator for coating flexible strands. 3,332,393, 7–25–67, Cl. 118—125.

Hoover, Hugh C. Offset printing blankets. 3,330,719, 7–11–67, Cl. 161—98.

Hoover, John R. E.: *See*—
Craig, Paul N., and Hoover. 3,336,191.

Hoover, Lawrence E. Piezoelectric igniter and distributor. 3,332,409, 7–25–67, Cl. 123—148.

Hoover, Merwin F., to Calgon Corp. Acrylamide polymers prepared in the presence of a redox catalyst system wherein a constant free-radical concentration is maintained. 3,332,-922, 7–25–67, Cl. 260—89.7.

Hoover, Valmo A. Actuator with limiting mechanism and torque limiting clutch. 3,312,916, 4–4–67, Cl. 335—74.

Hoover, Wayne: *See*—
House, William T., Ray, and Hoover. 3,352,934.

Hope, Alexander J. N.: *See*—
Davy, John R., and Hope. 3,296,049.

Hope, Donald: *See*—
Pitches, Brian E., and Hope. 3,350,935.

Hope, Frederick J. C., and F. G. Lambert. Anti-jack knife device. 3,328,051, 6–27–67, Cl. 280—432.

Hope, Henry. Machine for feeding X-ray film or the like. 3,312,462, 4–4–67, Cl. 271—4.

Hope, Henry. Air actuated switch for intermittent sheet control. 3,345,475, 10–3–67, Cl. 200—61.13.

Hope, Henry F. Heater. 3,352,298, 11–14–67, Cl. 126—350.

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Hopengarten, Abram: *See*—
Lancaster, William W., and Hopengarten. 3,309,617.
Pletrolewicz, John P., and Hopengarten. 3,309,464.

Hopengarten, Abram, to Philco-Ford Corp. Electronic tachometer and frequency measuring circuit. 3,302,110, 1–31–67, Cl. 324—78.

Hopengarten, Abram, to Philco Ford Corp. Tuning indicator circuit. 3,333,201, 7–25–67, Cl. 325—455.

Hopengarten, Abram, and R. F. Wood, to Philco-Ford Corp. Transistorized push-pull amplifier circuit utilizing positive feedback. 3,320,543, 5–16–67, Cl. 330—15.

Hopengarten, Albert, to Philco Ford Corp. Motor and motor vehicle speed maintaining system using recorded signal servo control. 3,349,950, 9–12–67, Cl. 180—105.

Hopf, Peter P.: *See*—
Moorshead, Thomas C., and Hopf. 3,303,241.

Hopf, Wilhelm, and Kärcher, Albert, to Daimler-Benz Aktiengesellschaft. Universal joint. 3,319,439, 5–16–67, Cl. 64—17.

Hopfeld, Fred P., to Grand Specialties Co. Drum tilting apparatus. 3,306,479, 2–28–67, Cl. 214—307.

Hopfeld, Fred P., to Grand Specialties Co. Lifts. 3,360,078, 12–26–67, Cl. 187—9.

Hopfeld, Henry. Reinforced structural member. 3,349,537, 10–31–67, Cl. 52—729.

Hopff, Heinrich: *See*—
Wandeler, Rolf, Hopff, and Schroder. 3,303,173.

Hopff, Heinrich, and E. Kleiner, to Deutsche Gold-und Silber-Scheidesnstalt Vormals Roessler. Production of copolymers of unsaturated polyester and ethylenically unsaturated monomers. 3,334,155, 8–1–67, Cl. 260—861.

Hopff, Heinrich, and E. Kleiner, to Deutsche Gold-und Silber-Scheidesnstalt vormals Roessler. Homo- and copolymerization of vinyl monomers using tautomeric pyruvic acid derivatives as catalysts. 3,354,134, 11–21–67, Cl. 260—89.5.

Hopff, Heinrich, and E. Kleiner, to Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler. Homo- and copolymerization of vinyl monomers using tautomeric anhydride or ketone derivatives as catalysts. 3,357,962, 12–12–67, Cl. 260—89.5.

Hopff, Heinrich, and E. Kleiner, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Homo- and copolymerization of vinyl monomers using tautomeric aldehyde derivatives as catalysts. 3,359,249, 12–19–67, Cl. 260—89.5.

Hopkin, Norman M.: *See*—
Hill, John, and Hopkin. 3,331,769.

Hopkin, Peter R., to S. Smith & Sons (England) Ltd. Echo sounding apparatus. 3,296,580, 1–3–67, Cl. 340—3.

Hopkin, Peter R., and W. Halliday, to S. Smith & Sons (England) Ltd. Echo-sounding apparatus with stabilized narrow beam. 3,316,530, 4–25–67, Cl. 340—3.

Hopkins, David K., to The Steel Co. of Wales Ltd. Oxygen-fuel lance. 3,313,535, 4–11–67, Cl. 266—34.

Hopkins, Durward K., to Sommer Products Co. Wire welding machine. 3,315,712, 4–25–67, Cl. 140—112.

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Wilkins, Douglas B., and Hopkins. 3,309,108.

Hopkins, Harold H.: *See*—
Minns, Thomas A., and Hopkins. 3,353,892.

Hopkins, Henry S., Jr., and P. L. Gordon, to General Latex and Chemical Corp. Rigid polyurethane foams prepared by using as the active hydrogen component a mixture of (A) the transesterification product of pentaerythritol with castor oil and (B) polyester polyols. 3,356,621, 12–5–67, Cl. 260—2.5.

Hopkins, John D.: *See*—
Whittingham, David J., Hopkins, and Cowles. 3,353,457.

Hopkins, John D., to Walker Mfg. Co. Filter pressure relief value. 3,315,808, 4–25–67, Cl. 210—130.

Hopkins, John D., D. J. Whittingham, F. H. Bultman, and P. K. Krause, to Walker Mfg. Co. Manufacture of filters. 3,347,967, 10–17–67, Cl. 264—115.

Hopkins, John E., and D. R. Wilson, to Kaleigh Industries, Ltd. Cold forming of asymmetric articles. 3,314,277, 4–18–67, Cl. 72—375.

Hopkins, Joseph H., to General Motors Corp. Snap-in rod connector. 3,305,254, 2–21–67, Cl. 287—111.

Hopkins, Joseph W., to Contempo Associates Inc. Combination bed and sofa. 3,331,086, 7–18–67, Cl. 5—8.

Hopkins, Kenneth W., to BP Tanker Co. Ltd. Mooring arrangement for ships. 3,315,630, 4–25–67, Cl. 114—230.

Hopkins, Leslie A., to National Research Development Corp. Apparatus for supporting a body on a gaseous cushion. 3,340,551, 9–12–67, Cl. 5—348.

Hopkins, Leslie A., to Hovercraft Development Ltd. Gas-cushion vehicles. 3,353,617, 11–21–67, Cl. 180—7.

Hopkins, Leslie A., and A. R. Tripp, to Hovercraft Development Ltd. Air cushion center of pressure displacing means for ground effect vehicles. 3,318,404, 5–9–67, Cl. 180—7.

Hopkins, Leslie A., and A. R. Tripp, to National Research Development Corp. Apparatus for supporting a body on a gaseous cushion. 3,340,550, 9–12–67, Cl. 5—348.

Hopkins, Leslie O., and D. R. Maciver, to The Pyrethrum Board of Kenya. Insecticidal materials. 3,310,463, 3–21–67, Cl. 167—24.

Hopkins, Lionel P. Arithmetic teaching apparatus. 3,333,350, 8–1–67, Cl. 35—31.

Hopkins Mfg. Corp.: *See*—
Hopkins, Ross E. 3,333,736.
Irwin, Lee K. 3,331,019.

Hopkins, Mertis G.: *See*—
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Hopkins, Neil E., and W. L. Osborn, to Borg-Warner Corp. Purge system for absorption refrigeration apparatus. 3,299,666, 1–24–67, Cl. 62—475.

Hopkins, Neil E., and R. F. Muhleman, to Borg-Warner Corp. Capacity control for refrigeration systems. 3,314,246, 4–18–67, Cl. 62—101.

Hopkins, Ross E. Method of manufacturing blades. 3,304,-812, 2–21–67, Cl. 76—101.

Hopkins, Ross E., to Hopkins Mfg. Corp. Pouring attachment for a liquid container. 3,333,736, 8–1–67, Cl. 222—83.

Hopkins, Stephen. Waste collecting and compacting unit. 3,353,478, 11–21–67, Cl. 100—52.

Hopkins, Thomas R., to Spencer Chemical Co. Method of controlling plant growth. 3,328,156, 6–27–67, Cl. 71—2.6.

Hopkins, Thomas R., P. D. Strickler, and L. V. Phillips, to Gulf Oil Corp. Method of producing substantially colorless and odorless 5(α-hydroxy-α-2-pyridyl-benzyl)-7-(α-2-pyridyl-benzylidene)-5-norbornylene-2,3-discarboximide. 3,297,706, 1–10–67, Cl. 260—295.

Hopkins, William C. N. Change-speed mechanism. 3,318,408, 5–9–67, Cl. 180—33.

Hopkinson, Brian E.: *See*—
Turney, John J., and Hopkinson. 3,346,485.

Hopkinson, Eric C.: *See*—
Youmans, Arthur H., and Hopkinson. 3,309,522.

Hopkinson, Eric C., and A. H. Youmans, to Dresser Industries, Inc. Neutron source having monitor system for adjusting corona current. 3,305,684, 2–21–67, Cl. 250—84.5.

Hopkinson, Eric C., and A. B. C. Marshall, to Dresser Industries, Inc. Detector gating system employed in a pulsed neutron logging system. 3,358,142, 12–12–67, Cl. 250—71.5.

Hopkinson, Paul O. W., to St. Barnabas Free Home, Inc. Diaphragm pump. 3,314,371, 4–18–67, Cl. 103—148.

Hopkinson, Paul O. W., Jr., to St. Barnabas Brotherhood, Inc. Method of forming fluid passages. 3,334,401, 8–8–67, Cl. 29—157.

Hopmeier, Arthur P., and J. W. Ingram, to Sun Chemical Corp. Process of producing phthalocyanine pigments. 3,351,-481, 11–7–67, Cl. 106—288.

Hopner, Emil, and D. H. Rumble, to International Business Machines Corp. Asynchronous data system transmitting before each data pulse a pulse of opposite polarity. 3,303,-424, 2–7–67, Cl. 325—44.

Hopner, Emil, H. L. Funk, and D. L. Critchlow, to International Business Machines Corp. Distortion correction circuitry for data transmission systems. 3,308,431, 3–7–67, Cl. 340—147.

Hopp, Harold P. Method of applying spark plug gaskets. 3,299,504, 1–24–67, Cl. 29—511.

Hopp, Harold P. Method of installing gaskets in captive relation on sparkplugs. 3,332,141, 7–25–67, Cl. 29—520.

Hoppe, Clemens B. Surgical suture extractor. 3,328,876, 7–4–67, Cl. 30—124.

Hoppe, Georg, and R. Dangschat, to Siemens-Schuckertwerke Aktiengesellschaft. Method of producing selenium midget rectifiers. 3,341,938, 9–19–67, Cl. 29—588.

Hoppe, John C., to Eastman Kodak Co. Photographic direct positive color process and element. 3,352,672, 11–14–67, Cl. 96—3.

Hoppe, Manfred: *See*—
Martl, Markus, and Hoppe. 3,310,529.

Hoppe, Peter, E. Weinbrenner, C. Muhlhausen, and K. Breer, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Apparatus for the manufacture of polyurethane plastics. 3,347,529, 10–17–67, Cl. 259—8.

Hoppe, Walter F., to Borg-Warner Corp. Appliance with pivotable backguard or the like. 3,320,944, 5–23–67, Cl. 126—214.

Hopper, Edward E., and C. A. Wentz, Jr., to Phillips Petroleum Co. Chemical reactions in composited tubular reaction zone and apparatus therefor. 3,305,600, 2–21–67, Cl. 260—683.15.

Hopper, James H., to United Aircraft Corp. Thermal garment. 3,295,594, 1–3–67, Cl. 165—46.

Hopper, John D., and F. B. Wells, to United States of America. Army. Flexible plasticized explosive of cyclonitramine and nitrocellulose and process therefor. 3,317,361, 5–2–67, Cl. 149—18.

Hopper, John D., and F. B. Wells, to United States of America, Army. Flexible explosive containing RDX and/or HMX and process therefor. 3,354,010, 11–21–67, Cl. 149—18.

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Hopper, Kenneth D., and E. E. Schwenzfeger, to Bell Telephone Laboatories, Inc. Arrangement for controlling traffic in a switching network. 3,342,945, 9–19–67, Cl. 179—18.

Hopper, Lucien L., Jr.: *See*—
Rayner, Eric T., Yeadon, Hopper, Dupuy, and Dollear. 3,312,565.

Hopper, Theodore R.: *See*—
Lister, Fred, Cullen, Hopper. 3,296,179.

Hopper, Theodore R., to FMC Corp. Novel coating compositions. 3,331,795, 7–18–67, Cl. 260—28.5.

Hoppes, Carlos D., to The National Latex Products Co. Method of making molds for elastomeric articles having surface details. 3,308,223, 3–7–67, Cl. 264—220.

Hopping, Alvin S. Electrical musical instrument having fingerboard with continuously variable finger tone spacing. 3,322,877, 5–30–67, Cl. 84—1.16.

Hopping, Russell L.: *See*—
Webb, James E. 3,295,798.

Hopps, Harvey B.: *See*—
Biel, John H., and Hopps. 3,301,862.
Biel, John H., and Hopps. 3,350,403.

Hopps, Harvey B., to Aldrich Chemical Co., Inc. N-aralkyl amides of 4-phenyl-piperidino-4-alkanoic acids. 3,350,404, 10–31–67, Cl. 260—294.

Hopps, Jay N., Jr.: *See*—
Brenny, Jerome P., Hopps, and Lindberg. 3,334,204.

Hora, Heinrich, to International Business Machines Corp. Light displacement control system. 3,360,324, 12–26–67, Cl. 350—160.

Hora, Karl, to Firma "Canada" Tiefbohrgerate und Maschinenfabrik and Ing. S. Nadel & A. Nadel. Bar-coupling. 3,299,830, 1–24–67, Cl. 103—202.

Horaguchi, Akira: *See*—
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Horak, Edgardo: *See*—
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Horakova, Zdenka: *See*—
Musil, Václav, Brunova, Němcček, and Horakova. 3,328,-418.

Horan, James E., and R. E. Van Strien, to Standard Oil Co. Vinyl resins containing metal salts of benzene tricarboxylic acids. 3,354,110, 11–21–67, Cl. 260—31.8.

Horan, John J. Window-mounted ventilating apparatus. 3,315,587, 4–25–67, Cl. 98—94.

Horan, John J. Flexural transducers. 3,325,780, 6–13–67, Cl. 340—10.

Horan, John J. Engine-ignition systems and components. 3,349,760, 10–31–67, Cl. 123—162.

Horan, John J. Externally stabilized lighting devices. 3,356,-841, 12–5–67, Cl. 240—81.

Horan, John J. Retail merchandising facilities and methods of using same. 3,360,077, 12–26–67, Cl. 186—1.

Horback, William B.: *See*—
Vona, Joseph A., and Horback. 3,324,056.

Horberg, Charles, Jr., to Paramount Textile Machinery Co. Hosiery processing machinery and apparatus. 3,319,849, 5–16–67, Cl. 223—76.

Horberg, Charles Jr., to Paramount Textile Machinery Co. Method and apparatus for handling hosiery and the like. 3,319,851, 5–16–67, Cl. 223—112.

Horberg, Charles, Jr., to Paramount Textile Machinery Co. Hosiery processing machinery and apparatus. 3,333,748, 8–1–67, Cl. 223—76.

Hordley, Albert E., and P. B. Kahn, to Plessey-UK, Ltd. Servo-actuating mechanisms. 3,315,940, 4–25–67, Cl. 253—1.

Hordosi, Theodore L.: *See*—
Gurski, Edward P., and Hordosi. 3,323,701.

Hordosi, Theodore L., to Western Electric Co., Inc. Automatic high speed test apparatus for testing continuity and shorts simultaneously on a plurality of circuit paths. 3,354,389, 11–21–67, Cl. 324—73.

Horecki, Walter R., to Pendleton Tool Industries, Inc. Storage and dispenser device for cut wire and the like. 3,360,-135, 12–26–67, Cl. 211—49.

Horecky, Stanley V.: *See*—
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Horeth, John M., R. H. Langenheim, and W. D. Howard, to Esso Production Research Co. Automatic mud sampler and packager. 3,333,391, 8–1–67, Cl. 53—28.

Horetzke, John R., to Grand Steel & Mfg. Co. Hydraulic transformer. 3,310,943, 3–28–67, Cl. 60—54.5.

Horgan, James F.: *See*—
Ellis, Myron P., Murphy, and Horgan. 3,347,090.

Horgan, John J., and D. Migdal, to United Aircraft Corp. Vectorable plug cluster nozzle rocket. 3,314,609, 4–18–67, Cl. 239—265.25.

Horgan, Thomas B., to International Business Machines Corp. Threshold logic circuit with quasi-linear current summing. 3,335,293, 8–8–67, Cl. 307—88.5.

Horgan, William J., Jr.: *See*—
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Blum, Louis, and Horgan. 3,306,641.
Blum, Louis, and Horgan. 3,312,029.
Blum, Louis, and Horgan. 3,331,467.
Blum, Louis, and Horgan. 3,351,324.
Blum, Louis, and Horgan. 3,356,392.
Blum, Louis, and Horgan. 3,358,969.

Horgan, William J., Jr., to Pittsburgh Plate Glass Co. Sliding glass door. 3,295,587, 1–3–67, Cl. 160—91.

Horgan, William J., Jr., to Pittsburgh Plate Glass Co. Structural gasket curtain wall. 3,336,707, 8–22–67, Cl. 52—281.

Hori, Eiichi, S. Hashimoto, and T. Saito, to Kabushiki Kaisha Kitachi Seisakusho. Device for sorting cards and like sheet articles. 3,323,645, 6–6–67, Cl. 209—74.

Hori, Selichi: *See*—
Takeuchi, Tsuneo, and Hori. 3,326,526.

Hori, Shiro, and H. Shimazono, to Takeda Chemical Industries, Ltd. Enhancing flavour of foods using flavouring enzyme produced by a microorganism of the genus Trametes. 3,348,952, 10–24–67, Cl. 99—116.

Hori, Tatsu, to Stanford Research Institute. Seed planting apparatus with automatic seed tape feed control. 3,331,532, 7–18–67, Cl. 221—13.

Horibe, Susumu: *See*—
Takano, Tadayoshi, Hattori, Kurits, and Horibe. 3,338,-897.

Horie, Hideharu. Automatic device for operating the seat frame and back support of the hair dressing and beauty treatment chair. 3,311,407, 3–28–67, Cl. 297—71.

Horie, Sadao: *See*—
Kato, Takeaki, Ueda, Horie, Mizutani, Fujimoto, and Okuno. 3,316,275.
Kato, Takeski, Ueda, Horie, Mizutani, Fujimoto, and Okuno. 3,318,766.

Horie, Shoji, to Wacoal Inc. Panty girdle. 3,334,633, 8–8–67, Cl. 128—528.

Horiguchi, Shojiro, and M. Nakamura, to Dainichiseika Color & Chemicals Mfg. Co., Ltd. Reactive coloring matter, processes for producing the same and processes for coloring articles with the same. 3,337,288, 8–22–67, Cl. 8—4.

Horiguchi, Shojiro, and M. Nakamura, to Dainichiseika Color & Chemicals Mfg. Co., Ltd. Method of making a chromogen bonded polymer and products thereof. 3,344,098, 9–26–67, Cl. 260—22.

Horiguchi, Tutomu: *See*—
Ono, Masao, and Horiguchi. 3,337,294.

Horiguchi, Yutaka: *See*—
Saeki, Akio, and Horiguchi. 3,299,372.

Horino, Masao: *See*—
Itoh, Tadatsugu. 3,336,510.

Horiuchi, Soichiro, J. Hashimoto, K. Wakabayashi, K. Yamada, E. Masunaga, and I. Kishimoto, to Teijin Ltd. Method of producing viscose rayon staple and a spinning apparatus for use in the method. 3,341,645, 9–12–67, Cl. 264—196.

Horix Mfg. Co.: *See*—
Wilhere, Charles V. 3,303,633.
Wilhere, Charles V. 3,309,838.

Horizons Inc.: *See*—
Fotland, Richard A. 3,341,728.
Fotland, Richard A. 3,351,503.
Kelsey, Robert H. 3,311,689.
Kelsey, Robert H. 3,341,285.
Magder, Jules. 3,330,675.
Schunemann, Calvin A. 3,311,458.
Schunemann, Calvin A. 3,311,493.
Schunemann, Calvin A. 3,323,910.
Sprague, Robert H., and Keller. 3,342,595.
Sprague, Robert H., and Stewart. 3,342,603.
Sprague, Robert H., Stewart, and Lewis. 3,342,602.
Sprague, Robert H., Stewart, and Lewis. 3,342,604.
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Straughan, Virgil E., Bendis, and Magder. 3,331,044.
Vukasovich, Mark S., and Harkulich. 3,341,314.
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Horlacher, Harry W., and C. I. Pelton, to The Taylor-Winfield Corp. Die manipulator. 3,303,558, 2–14–67, Cl. 29—239.

Horlacher, Heinrich. Splayfoot bandage. 3,303,842, 2–14–67, Cl. 128—80.

Horlander, Frank J., to United States of America, Navy. Gate generator synchronizer. 3,304,504, 2–14–67, Cl. 328—72.

Horlander, Frank J., to United States of America, Navy. Automatic pulse former. 3,351,777, 11-7-67, Cl. 307—88.5.

Horlenko, Theodore, and D. R. Larkin, to Celanese Corp. Preparation of ϵ-caprolactone. 3,317,563, 5-2-67, Cl. 260—343.

Horlicks Ltd.: *See*—
White, John. 3,295,326.

Hormats, Ellis I.: *See*—
Shepherd, Joseph L., Witz, and Hormats. 3,354,067.
Witz, Samuel, Shepherd, and Hormats. 3,329,485.

Hornel, Geo. A., & Co.: *See*—
Brown, Frank M., Burton, Farmer, and Irmen. 3,346,112.

Horn, Anton J.: *See*—
Weichselbaum, Theodore E., and Horn. 3,308,303.
Weichselbaum, Theodore E., and Horn. 3,332,289.

Horn, Christian F., to Union Carbide Corp. Dyeable polyesters modified by difunctional organo-nitrogen compounds. 3,324,085, 6-6-67, Cl. 260—75.

Horn, Christian F., and H. S. Kincaid, to Union Carbide Corp. Polyesters modified with α,ω-bis-(4-sulfophenoxy)alkanoic acids and alkyl esters thereof. 3,301,819, 1-31-67, Cl. 260—49.

Horn, Christian F., and H. Vineyard, to Union Carbide Corp. Sulfo-substituted aromatic dicarboxlic compounds and polyesters thereof. 3,324,084, 6-6-67, Cl. 260—75.

Horn, Elmar-Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Boron-nitrogen compounds and process for their production. 3,338,962, 8-29-67, Cl. 260—551.

Horn, Elmar-Manfred, and K. Lang, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of substituted borazoles. 3,297,749, 1-10-67, Cl. 260—551.

Horn, Elmar-Manfred, and K. Lang, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of N,N',N''-triorgano-substituted borazoles. 3,297,750, 1-10-67, Cl. 260—551.

Horn, Elmar-Manfred, K. Lang, H. Rinkes, and D. Voigt, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for generation of gas. 3,323,873, 6-6-67, Cl. 23—281.

Horn, Elmar-Manfred, and H. Niederprum, to Farbenfriken Bayer Aktiengesellschaft. Organo-substituted borazines. 3,345,396, 10-3-67, Cl. 260—462.

Horn, Elmar-Manfred, K. Kleine-Weischede, K. Lang, and H. Niederprum, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polymeric boron nitrogen compounds. 3,350,326, 10-31-67, Cl. 260—2.

Horn, Elmar-Manfred, and H. Niederprum, to Farbenfabriken Bayer Aktiengesellschaft. Polymeric organic boron-nitrogen-sulfur compounds. 3,357,949, 12-12-67, Cl. 260—46.5.

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Horn, Herwig F., and A. F. Aldrian. Process for the vapor deposition of material without thermal radiation of the substrate. 3,333,982, 8-1-67, Cl. 117—106.

Horn, John M., to Allis-Chalmers Mfg. Co. Pressure surge suppressor. 3,319,643, 5-16-67, Cl. 137—70.

Horn, John M., and B. S. Ember, to Allis-Chalmers Mfg. Co. Clamping device for high pressure vessels. 3,305,121, 2-21-67, Cl. 220—5.

Horn, Kenneth L., to Hughes Aircraft Co. Multipactor switch. 3,354,349, 11-21-67, Cl. 315—39.

Horn, Lutz, and F. Philipp, to Varta Aktiengesellschaft. Method of producing high-porous sinterplates, preferably for alkaline accumulators. 3,325,280, 6-13-67, Cl. 75—201.

Horn, Philip R., to General Electric Co. Electrolytic device with casing having a rigid and a resilient seal combination. 3,301,270, 1-31-67, Cl. 317—230.

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Hornaday, George F., and H. D. Noll, to Air Products and Chemicals, Inc. Process for catalytically cracking pyrolysis condensates. 3,340,178, 9-5-67, Cl. 208—89.

Hornaday, James R., to General Motors Corp. Seal assembly. 3,355,178, 11-28-67, Cl. 277—87.

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Hornbostel, Lloyd, deceased, by D. Hornbostel, executrix. Perforated drum type liquid filter. 3,330,416, 7-11-67, Cl. 210—387.

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Hornschuch, Hanns, to Ingersoll-Rand Co. Fluid machine. 3,355,097, 11-28-67, Cl. 230—209.

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Horst, Robert L., to Armstrong Cork Co. Three-dimensional dielectric lens and method and apparatus for forming the same. 3,321,821, 5-30-67, Cl. 29—155.5.

Horst, Robert L., to Armstrong Cork Co. Antenna. 3,331,073, 7-11-67, Cl. 343—755.

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Hott, Ion V. K. Two-post frame contact lift. 3,331,470, 7–18–67, Cl. 187—8.75.

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Hott, Ion V. K. and R. J. Haddix, ⅓ to said Hott, ⅓ to H. C. Brown, and ⅓ to W. E. Webster. Jacking unit and metering valve therefor. 3,315,571, 4–25–67, Cl. 92—8.

Hotta, Koji, to Oval Gear Engineering Co., Ltd. Transmission gear arrangement for a rotary machine operable as pump or fluid motor. 3,327,637, 6–27–67, Cl. 103—126.

Hotte, Joseph G. F., and J. L. R. A. Thomas, to Northern Electric Co., Ltd. Blanking method and apparatus. 3,295,-354, 1–3–67, Cl. 72—268.

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Hotten, Bruce W., to Chevron Research Co. Elastomeric compositions of oil and urethane-linked resins. 3,297,624, 1–10–67, Cl. 260—33.6.

Hotten, Bruce W., to Chevron Research Co. Automatic transmission fluids containing quaternary ammonium thiophosphates. 3,311,560, 3–28–67, Cl. 252—75.

Hotten, Bruce W., to Chevron Research Corp. Gel compositions. 3,323,883, 6–6–67, Cl. 44—7.

Hotten, Bruce W., to Chevron Research Corp. Lubricants containing benzylureas. 3,324,031, 6–6–7, Cl. 252—42.1.

Hotten, Bruce W., to Chevron Research Co. Elastomeric compositions of oil and anhydride-linked resins. 3,326,841, 6–20–67, Cl. 260—33.6.

Hotten, Bruce W., to Chevron Research Co. Lubricants containing quaternary ammonium dithiocarbamates. 3,354,085, 11–21–67, Cl. 252—33.6.

Hottenstine, Richard D., to Combustion Engineering, Inc. Steam generator and turbine control system. 3,310,683, 3–21–67, Cl. 290—2.

Hottenstine, Richard D., to Combustion Engineering, Inc. Method and apparatus for increasing control response of a vapor generator. 3,338,054, 8–29–67, Cl. 60—107.

Hottman, Clarence E., to Shell Oil Co. Apparatus for using a source of energy from an overpressured formation. 3,330,-356, 7–11–67, Cl. 166—57.

Hotz, Günter, to Telefunken Patentverwertungs G.m.b.H. Error detection and correction circuit. 3,340,507, 9–5–67, Cl. 340—146.1.

Hotz, Leo F. Bath water circulator and aerator. 3,325,829, 6–20–67, Cl. 4—180.

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Hotz, Melvin, and D. E. Hill, to United States of America, Air Force. Optical system for testing mapping radar. 3,336,594, 8–15–67, Cl. 343—17.7.

Houbart, Ivan, to Centre National de Recherches Metallurgiques. Rotatable sample changer for an electron probe microanalyzer having means for maintaining a vacuum in the analysis chamber. 3,356,844, 12–5–67, Cl. 250—49.5.

Houbolt, Neal, to Jemco Engineering Co. Insulator for flag type terminals. 3,320,357, 5–16–67, Cl. 174—138.

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Houff, William H., and A. C. Nixon, to Shell Oil Co. Process for converting water soluble starch products to water resistant materials. 3,321,422, 5–23–67, Cl. 260—17.4.

Hough, Dean R., to Washington Rubber Co. Process of recapping a worn pneumatic tire using cord-stitched camelback. 3,314,839, 4–18–67, Cl. 156—87.

Hough, Harold L., and R. E. Levin, to Sylvania Electric Products, Inc. Surface level runway lighting unit. 3,331,-956, 7–18–67, Cl. 240—1.2.

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Ensign, Robert H. 3,331,426.
Gilson, Herman M. 3,295,588.

Hough, Mark W., to Liftronic, Inc. Selective electronic signal receiving and actuating device. 3,299,284, 1–17–67, Cl. 307—88.5.

Hough, Ralph L., to United States of America, Air Force. Vapor plating apparatus. 3,313,269, 4–11–67, Cl. 118—49.5.

Hough, Ralph L., to United States of America, Air Force. Ablative reinforced plastic article and method of making same. 3,325,343, 6–13–67, Cl. 161—184.

Hough, William V., to Callery Chemical Co. Preparation of hexaborane (10). 3,298,784, 1–17–67, Cl. 23—204.

Hough, William V., and J. S. Hashman, to Callery Chemical Co. Borane-hydrazine compounds. 3,298,799, 1–17–67, Cl. 23—358.

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Houle, Tim H., to A. O. Smith Corp. Data pulse combining system employing scanner to sequentially gate plural memory circuits each having automatic reset means. 3,358,237, 12–12–67, Cl. 328—104.

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Houlihan, William J., to Sandoz Inc. Dibenzylsulfamides. 3,320,302, 5–9–67, Cl. 260—556.

Houlihan, William J., to Sandoz Inc. Chlorobenzyl sulfamides. 3,320,314, 5–16–67, Cl. 260—556.

Houlihan, William J., to Universal Oil Products Co. Perfume compositions containing methoxyphenylethers. 3,328,260, 6–27–67, Cl. 167—94.

Houlihan, William J., to Sandoz Inc. Isoindolobenzimidazolones. 3,329,684, 7–4–67, Cl. 260—309.2.

Houlihan, William J., to Sandoz Inc. Thiadiazepinedioxides and their preparation. 3,329,687, 7–4–67, Cl. 260—327.

Houlihan, William J., to Sandoz Inc. Sedatives. 3,334,091, 8–1–67, Cl. 260—243.

Houlihan, William J., to Sandoz Inc. Novel pyrrolo-oxazines and pyrrolo-oxazoles. 3,334,095, 8–1–67, Cl. 260—244.

Houlihan, William J., to Sandoz Inc. Novel pyrrolo-diazepines pyrrolo-imidazolidines and pyrrolo-pyrimidines. 3,334,099, 8–1–67, Cl. 260—251.

Houlihan, William J., to Sandoz Inc. Certain substituted piperidyl sulfamides. 3,334,104, 8–1–67, Cl. 260—293.4.

Houlihan, William J., to Sandoz Inc. 9β-phenyl-1,2,3,9β-tetrahydro - 5H - imidazo[2,1-a]isoindol - 5 - ones. 3,334,113, 8–1–67, Cl. 260—309.7.

Houlihan, William J., to Sandoz Inc. N-propargyl sulfamides. 3,351,584, 11–7–67, Cl. 260—239.

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Houpt, Grover K., and V. Whittaker, to Automatic Timing and Controls, Inc. Amplitude and polarity sensitive control system. 3,354,399, 11–21–67, Cl. 328—147.

Hourdiaux, Jules. Curved projection screens. 3,295,910, 1–3–67, Cl. 350—125.

Hourdiaux, Jules. Curved screens for projecting motion picture films or the like. 3,348,897, 10–24–67, Cl. 350—125.

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Houser, Roy W., and J. B. Jaksha, to Robertshaw Controls Co. High and low level speed control for an automatic washing machine. 3,318,116, 5–9–67, Cl. 68—12.

Houser, Roy W., L. P. Morris, and S. E. Chenaur, to Robertshaw Controls Co. Control devices and valve constructions therefor or the like. 3,338,268, 8–29–67, Cl. 137—625.66.

Houser, Roy W., L. P. Morris, and S. E. Chenaur, to Robertshaw Controls Co. Control devices and valve constructions therefor or the like. 3,359,388, 12–19–67, Cl. 200—83.

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Lee, Ryals E., Houston, and Norman. 3,328,030.

Houston, Joe B., and H. H. Davis. Fluid control structure. 3,359,916, 12–26–67, Cl. 103—152.

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Tamada, Kazumi. 3,309,895.

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Howald, Werner E., to General Electric Co. Method of manufacturing a stator assembly for turbomachines. 3,335,483, 8–15–67, Cl. 29—156.8.

Howard, Ben O. Exhauster including venturi means. 3,347,147, 10–17–67, Cl. 98—78.

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Howard, Billy G., ½ to C. R. Ashworth. Waste compressor. 3,358,590, 12–19–67, Cl. 100—218.

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Howard, David F., to Read Corp. Rack type dough proofer. 3,349,928, 10–31–67, Cl. 214—16.4.

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Howe, Dwight S. Trampoline diving platform. 3,310,305, 3–21–67, Cl. 272—65.

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Howe, Frederick A., and R. I. Bell, to United Kingdom Atomic Energy Authority. Annular electrodes in differential pumping tubes for electrostatic accelerators. 3,342,404, 9–19–67, Cl. 230—60.

Howe, King L., to E. I. du Pont de Nemours and Co. Methyl methacrylate compositions containing halogen substituted acid alkyl esters of orthophosphoric acid. 3,347,818, 10–17–67, Cl. 260—45.7.

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Howe, Ralph, and B. J. McLoughlin, to Imperial Chemical Industries Ltd. (3-Amino-2-hydroxypropoxy)-benzoheterocyclic derivatives. 3,340,266, 9–5–67, Cl. 260—288.

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Howell, Derek, to Telephone Mfg. Co. Ltd. Telephone systems and apparatus. 3,345,467, 10–3–67, Cl. 179—81.

Howell, Dixie M., to Kellwood Co. Nightgown and built-in bust support. 3,316,915, 5–2–67, Cl. 128—454.

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Howell, Edward K., to General Electric Co. Snap-action trigger circuit for semiconductor switching devices. 3,321,641, 5–23–67, Cl. 307—88.5.

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Howell, Edward K., to General Electric Co. Phase control circuits for light activated switches using a variable resistor with an A.C. voltage across it as the phase control. 3,354,312, 11–21–67, Cl. 250—206.

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Howell, Elvin L., and C. M. Hyman, to International Harvester Co. Straw chopper and spreader. 3,350,017, 10–31–67, Cl. 239—660.

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Howell, Robert B. Separable concealed slide fasteners. 3,324,522, 6–13–67, Cl. 24—205.1.

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Howgate, David W., to United States of America, Army. Method and apparatus for analysis of gaseous discharge products from flames by electron-paramagnetic resonance. 3,348,135, 10–17–67, Cl. 324—.5.

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Hoynanian, Hrair P., and T. A. Brennan, to Avco Corp. Microscope system with means for viewing the entire image and means for measuring radiation from a selected segment of image. 3,297,873, 1-10-67, Cl. 250—71.

Hoynes, Degfin S., to United States of America, Commerce. Antenna system employing human body as radiator. 3,329,957, 7-4-67, Cl. 343—718.

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Hoyt, John M., C. E. Frank, and K. Koch, to National Distillers and Chemical Corp. Dipolar aprotic solvent system for polymerization of bis-(α-haloalkyl) aromatic compounds in the presence of a coupling agent. 3,345,332, 10-3-67, Cl. 260—47.

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Hruby, John O., Jr., to Rain Jet Corp. Pop-up lawn sprinkler with regulating valve. 3,323,725, 6-6-67, Cl. 239—205.

Hruby, John O., Jr., to Rain Jet Corp. Water disperser. 3,347,464, 10-17-67, Cl. 239—210.

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Hubbard, Arthur L., to Deere & Co. Cotton picker. 3,359,712, 12-26-67, Cl. 56—44.

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Hubby, Laurence M., to Texaco Inc. Well completion apparatus. 3,357,492, 12-12-67, Cl. 166—106.

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Huber, Dorothy M. Diffuser for highway luminaire. 3,342,985, 9-19-67, Cl. 240—25.

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Huber, Francis C., to Allied Chemical Corp. Plasticizer compositions stabilized with a tertiary-butyl catechol. 3,326,707, 6-20-67, Cl. 106—316.

Huber, Franz R., and M. Schiller, to Rohde & Schwarz. Parallel dipole array supported on insulator having a low dielectric constant. 3,299,430, 1-17-67, Cl. 343—812.

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Huber, Harry, and D. Maugis, to CSF-Compagnie Generale de Telegraphie Sans Fil. Cavity type particle stream accelerator having a non-isothermal chamber. 3,346,750, 10-10-67, Cl. 313—231.

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Huber, Mortimer J. Gear case vent. 3,308,681, 3-14-67, Cl. 74—606.

Huber, Mortimer J., to Motion Products Mfg. Co., Inc. Hydraulic torque relief mechanism. 3,321,856, 5-30-67, Cl. 40—33.

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Huber, Richard, to Varta Aktiengesellschaft. Primary battery having one of the electrodes wound up on a rotatable shaft. 3,357,864, 12-12-67, Cl. 136—113.

Huber, Robert, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie, S.A. Power plants comprising at least one main gas-engine driven by power gas supplied by a gas-generator and at least one auxiliary engine. 3,316,711, 5-2-67, Cl. 60—13.

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Huber, Ronald F., to Joslyn Mfg. and Supply Co. Stress relief apparatus. 3,335,215, 8-8-67, Cl. 174—73.

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Huber, William A., to United States of America, Army. Adaptive memory frequency stabilized oscillator. 3,320,545, 5-16-67, Cl. 331—17.

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Hubert, Clarence A., and J. R. McGirk, to International Harvester Co. Combine grain tank loading and unloading system. 3,339,758, 9-5-67, Cl. 214—17.

Hubert, Claudine P. Water catcher for washing machine. 3,304,950, 2-21-67, Cl. 137—312.

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Hübner, Rolf. Gas analyzer with testing mode. 3,343,402, 9-26-67, Cl. 73—23.

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Hubrich, Frederick M., to John Oster Mfg. Co. Control means to energize a combination can opener and knife sharpener. 3,307,255, 3-7-67, Cl. 30—4.

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Huck, William F. Web registering and tension control system for multi-unit presses. 3,326,436, 6–20–67, Cl. 226—25.

Huck, William F. Positioning controls for splicing rollstands. 3,326,485, 6–20–67, Cl. 242—58.3.

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Huck, William F. Rollstands for carrying web rolls having different axial widths. 3,326,487, 6–20–67, Cl. 242—64.

Huck, William F. Pasting rollers for splicing rollstand. 3,353,765, 11–21–67, Cl. 242—58.3.

Huck, William F. Web-roll driving apparatus for automatic splicing rollstand. 3,355,120, 11–28–67, Cl. 242—58.3.

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Hucke, William L., III, to Westinghouse Electric Corp. Flat-pack circuit modules assembly. 3,316,455, 4–25–67, Cl. 317—100.

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Hudson, James W., H. I. Stanback, and D. D. Butler, to Square D Co. Underfloor wiring duct with access opening collar, clamping plate, plug, and adapter. 3,334,457, 8–8–67, Cl. 52—221.

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Hudson, Lena M., to Bausch & Lomb Inc. Four component symmetrical copying objective. 3,348,900, 10–24–67, Cl. 350—209.

Hudson, Lena M., to Bausch & Lomb Inc. Five component objective lens. 3,348,901, 10–24–67, Cl. 350—210.

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Huebner, Charles F., to Ciba Corp. 2-(1,2,3,4-tetrahydronaphthyl)-hydrazines and salts thereof. 3,354,200, 11–21–67, Cl. 260—501.11.

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Huebsch, Monte F., Sr., to McGraw-Edison Co. Pressing apparatus. 3,304,635, 2–21–67, Cl. 38—25.

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Huelskamp, Richard F., to Sylvania Electric Products, Inc. Antenna nutation mechanism with polarization control. 3,312,975, 4–4–67, Cl. 343—760.

Huelsman, Kenneth A., to Weston Instruments, Inc. Voltage to frequency converter utilizing voltage controlled oscillator and operational amplifier. 3,327,229, 6–20–67, Cl. 328—150.

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Huff, Jon O. Reinforced filter with replaceable cartridge. 3,303,933, 2–14–67, Cl. 210—441.

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Huffman, Carl L., to Vulcan-Hart Corp. Heat distribution system for gas-fired ovens. 3,324,844, 6–13–67, Cl. 126—21.

Huffman, Clarence W., to International Minerals & Chemical Corp. Phosphonate purification process. 3,335,205, 8–8–67, Cl. 260—990.

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Huffman, Clayton D., and R. W. Hartung, to Union Steel Products Co. Bread cooling apparatus. 3,321,061, 5–23–67, Cl. 198—31.

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Huffman, Kenneth R., and E. F. Ullman, to American Cyanamid Co. Novel furan and thiophene compounds. 3,331,854, 7–18–67, Cl. 260—330.5.

Huffman, Kenneth R., and E. F. Ullman, to American Cyanamid Co. 3-aroyl-(2-arylmethyl)chromones. 3,331,859, 7–18–67, Cl. 260—345.2.

Huffman, Robert J., and C. G. Corrello, to Celanese Corp. Filter. 3,326,221, 6–20–67, Cl. 131—267.

Huffman, Ronald E. Fluid pressure control for model aircraft. 3,355,838, 12–5–67, Cl. 46—78.

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Huffman, William A. H., deceased (by E. H. Huffman, executrix), and J. B. Clements, to Monsanto Co. Aqueous zinc chloride solutions of vinylene glycol polymers. 3,344,102, 9–26–67, Cl. 260—29.6.

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Hufton, Arthur G., to Motorola, Inc. Electronic apparatus. 3,318,296, 5–9–67, Cl. 123—148.

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Hugenholtz, Eduard H., to North American Philips Co., Inc. Oscillator system for controlling the frequency of an oscillator in predetermined increments. 3,333,209, 7–25–67, Cl. 331—25.

Hugenholtz, Paul G., M. L. Polanyi, and R. E. Innis, to American Optical Co. Fiber optic catheter. 3,335,715, 8–15–67, Cl. 128—2.

Huggard, Olin W., to Mobil Oil Corp. Electrocoating process employing a water soluble resin and an oil soluble resin. 3,297,557, 1–10–67, Cl. 204—181.

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Huggard, Olin W., to Mobil Oil Corp. Two phase aqueous emulsion suitable for electrophoretic coating and process for use thereof. 3,340,172, 9–5–67, Cl. 204—181.

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Renckhoff, Gustav, and Hulsmann. 3,356,712.

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Hulteen, Leonard A., and W. H. Gilliland, to USCO Power Equipment Corp. Expulsion-type interrupter for high voltage disconnect switch. 3,308,259, 3–7–67, Cl. 200—146.

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De Lorean, John Z., Hulten, and Waara. 3,338,229.

Hulten, Richard E., to General Motors Corp. Camshaft construction. 3,352,293, 11–14–67, Cl. 123—90.

Hulterstrum, Harold D., to Flambeau Plastics Corp. Rack and container set. 3,307,709, 3–7–67, Cl. 211—71.

Hulterstrum, Harold D., to Flambeau Plastics Corp. Food processing device. 3,352,340, 11–14–67, Cl. 146—213.

Hultgren, Eric G., to United Tool & Plastics, Inc. Lipstick device. 3,298,509, 1–17–67, Cl. 206—56.

Hultgren, Eric G., and W. J. Landen, to International Silver Co. Compact case construction. 3,342,190, 9–19–67, Cl. 132—83.

Hultgren, George W., to United Tool & Plastics, Inc. Ornamental cover for lipstick devices and the like. 3,338,458, 8–29–67, Cl. 220—63.

Hultgren, Hjalmar H., to Alfa-Laval AB. Apparatus for delivering material to storage containers. 3,298,748, 1–17–67, Cl. 302—60.

Hultgren, Karl S. R., to Aktiebolaget Bofors. Closure device for closing an entrance opening. 3,315,412, 4–25–67, Cl. 49—246.

Hultgren, Karl S. R., and L. G. R. Engberg, to Aktiebolaget Bofors. Steering device for a track-laying vehicle. 3,358,786, 12–19–67, Cl. 180—6.7.

Hultgren, Nils L., to Aktiebolaget Electrolux. Heat operated refrigerator operable on gas or electricity and control mechanism therefor. 3,295,334, 1–3–67, Cl. 62—148.

Hultgren, William H., to Champion Laboratories, Inc. Filter unit with by-pass and anti-drain back valve. 3,315,809, 4–25–67, Cl. 210—130.

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Hultman, Stanley J., G. L. Rich, D. B. Dalley and D. E. Tunison, Jr., to Pittsburgh Plate Glass Co. Process of roasting chromite ore to produce sodium chromate. 3,336,102, 8–15–67, Cl. 23—56.

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Hults, Harold W., to Cutler Hammer, Inc. Positive action switch with improved resiliently biased stationary contact and associated bridging contact structure. 3,296,389, 1–3–67, Cl. 200—16.

Hults, Harold W., to Cutler-Hammer, Inc. Positive action switches. 3,333,074, 7–25–67, Cl. 200—68.

Hults, Harold W., to Cutler-Hammer, Inc. Positive action switches with improved sliding contact supporting rail structure. 3,339,032, 8–29–67, Cl. 200—16.

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Hulverson, Adrian F., and J. M. Bailey, to Fruehauf Corp. Container coupler. 3,359,605, 12–26–67, Cl. 24—211.

Humanic, Steven J., to United States Steel Corp. Hollow sheet metal structure. 3,306,268, 2–28–67, Cl. 122—498.

Humber, Leslie G., to American Home Products Corp. 1-hydroxy-1-(2-pyridyl)-2,3,6,7-dibenzo-2,6 - cyclooctadiene: 1(2-pyridyl)-2,3,6,7-dibenzo-2,6,8-cyclooctatriene and the hydrochloride. 3,317,543, 5–2–67, Cl. 260—290.

Humber, Leslie G., and M. A. Davis, to American Home Products Corp. Hexahydrobenzo (6,7) cyclohepta (1,2,3-d,e) isoquinoline carboxamidine. 3,354,162, 11–21–67, Cl. 260—286.

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Humbert, Jacques, and R. Pelardy, to Commissariat a l'Energie Atomique. Device for engaging slings or like members over lifting hooks. 3,339,767, 9–5–67, Cl. 214—628.

Humbert, Kingsley E., Jr., to Wix Corp. Filter apparatus. 3,297,160, 1–10–67, Cl. 210—94.

Humbert, Kingsley E., Jr., to Wix Corp. Method of making a filter element. 3,306,794, 2–28–67, Cl. 156—69.

Humbert, Kingsley E., Jr., to Wix Corp. Filter unit employing in combination one-way and pressure relief valve. 3,332,554, 7–25–67, Cl. 210—130.

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Humble, Maglena, and J. L. McDonald, to J. L. McDonald. Closure for nail polish container or the like. 3,298,054, 1–17–67, Cl. 15—521.

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Humes Ltd.: *See*—
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Humiston, John H., to Scovill Mfg. Co. Magnetic fastening means. 3,324,521, 6–13–67, Cl. 24—201.

Hummel, Edwin C. Label holder for comb binding. 3,335,508, 8–15–67, Cl. 40—10.

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Hummel, Hermann, to Telefunken Patentverwertungsgesellschaft m.b.H. Information storage and transfer system for digital computers. 3,351,909, 11–7–67, Cl. 340—172.5.

Hummel, Max. Apparatus for opening and closing, respectively, windows and hatches on boats. 3,320,698, 5–23–67, Cl. 49—340.

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Kirkhof, Russel H., R. T. Hummel, Sr., R. J. Hummel, Jr., and O'Brien. 3,321,888.

Hummel, Raymond T., Sr.: *See*—
Kirkhof, Russel H., R. T. Hummel, Sr., R. J. Hummel, Jr., and O'Brien. 3,321,888.

Hummel, Wiley M., and R. W. Gustafson, to General Electric Co. Thermostatic device with compensation for internal heat. 3,344,252, 9–26–67, Cl. 200—140.

Humpherys, Allan S., and J. A. Bondurant, to United States of America, Agriculture. Automatic irrigation gate. 3,300,985, 1–31–67, Cl. 61—25.

Humpherys, Bernarr H., to United States of America, Navy. IFF automatic alarm. 3,296,592, 1–3–67, Cl. 340—167.

Humpherys, Bernarr H., to United States of America, Navy. Single delay line double defruiter. 3,302,197, 1–31–67, Cl. 343—6.5.

Humpherys, Bernarr H., to United States of America, Navy. Digital synchronizer. 3,305,860, 2–21–67, Cl. 343—6.5.

Humpherys, Bernarr H. Pulse width shaper. 3,316,424, 4–25–67, Cl. 307—88.5.

Humphlett, Wilbert J., D. L. Johnson, and G. M. Halat, to Eastman Kodak Co. Process for stabilizing photographic images with heat. 3,301,678, 1–31–67, Cl. 96—61.

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Humphrey, David H. Combination desk and couch. 3,337,879, 8–29–67, Cl. 5—3.

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Humphrey, Frederick H. Collapsible filing container. 3,317,-113, 5–2–67, Cl. 229—23.

Humphrey, John G., to General Electric Co. Non-blocking keyed automatic gain control system. 3,301,951, 1–31–67, Cl. 178—7.3.

Humphrey, John G., to General Electric Co. Blanking circuit arrangement for a television system utilizing pulses derived from the high voltage power supply circuit. 3,303,282, 2–7–67, Cl. 178—7.5.

Humphrey, Laurence E., G. I. Addis, and R. C. Hess, to Union Carbide Corp. Process for the production of alkali metal composite electrical conductors. 3,333,037, 7–25–67, Cl. 264—105.

Humphrey, Laurence E., G. I. Addis, and R. C. Hess, to Union Carbide Corp. Alkali metal composite electrical conductors. 3,333,049, 7–25–67, Cl. 174—102.

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Humphrey, Loren K., R. A. Dunning, and C. A. Layman, to The Dow Chemical Co. Dusting of surfaces. 3,359,128, 12–19–67, Cl. 117—16.

Humphrey, Raymond A., to Esso Production Research Co. Method of sealing a permeable porous medium. 3,302,733, 2–7–67, Cl. 175—59.

Humphrey, Raymond A., to Esso Production Research Co. Low invasion coring fluid. 3,314,489, 4–18–67, Cl. 175—59.

Humphrey, Richard L.: *See*—
Winkler, Eva M., and Humphrey. 3,351,799.

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Humphrey, Walter J., to Kelly-Moore Paint Co., Inc. Air actuated clutch assembly. 3,339,424, 9–5–67, Cl. 74—230.24.

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Humphreys, George B., to Kaiser Industries Corp. Desalination by osmosis and change of state. 3,357,917, 12–12–67, Cl. 210—22.

Humphreys, Ira B., to Humphreys Engineering Co. Cyclonic counterflow separator. 3,323,646, 6–6–67, Cl. 209—211.

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Hundstad, Richard L., to Westinghouse Electric Corp. Continuous reheat magnetohydrodynamic generating duct arrangement. 3,356,871, 12–5–67, Cl. 310—11.

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Hundt, Donald D., D. G. Greenlie, deceased (by M. G. Greenlie, administratrix), to W. R. Grace & Co. Inflatable gasket for pipe joints. 3,360,273, 12–26–67, Cl. 277—34.

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Hung, Li: *See*—
Chiu, Chao F., and Hung. 3,338,215.

Hung, Roland Y., to Westinghouse Electric Corp. High speed, low dissipation logic gates. 3,358,154, 12–12–67, Cl. 307—88.5.

Hung, Wong K.: *See*—
Man, Wong C. 3,336,952.

Hunger, Gunther K.: *See*—
Brundige, Maurice M., Hunger, Kohne, and Kurrle. 3,342,921.

Hunger, Herbert F., to United States of America, Army. Barriers for fuel cells. 3,357,861, 12–12–67, Cl. 136—86.

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Hungerford, Max, to American Machine & Foundry Co. Clutch actuating mechanism for tractor. 3,329,249, 7–4–67, Cl. 192—98.

Hungerford, Max, to American Machine & Foundry Co. Gearing assembly for tractor. 3,339,432, 9–5–67, Cl. 74—701.

Hungerford, William J., J. W. Larmer, and M. Levinsohn, to United States of America, National Aeronautics and Space Administration. Conforming polisher for aspheric surfaces of revolution. 3,341,977, 9–19–67, Cl. 51—57.

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Hunnebeck, Emil M., to Hunnebeck AG. Extensible girder construction and clamping means therefor. 3,352,081, 11–14–67, Cl. 52—632.

Hunnewell Soap Co., The: *See*—
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Bacon, Oliver M. 3,350,304.

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Hunnicutt, Thomas R.: *See*—
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Hunstiger, Francis, to Harris-Intertype Corp. Web register mechanism. 3,299,777, 1–24–67, Cl. 88—24.

Hunstiger, Francis, to Harris-Intertype Corp. Electrophotographic apparatus. 3,307,457, 3–7–67, Cl. 95—1.7.

Hunstiger, Francis, and H. E. Drake, to Harris-Intertype Corp. Electrophotographic apparatus. 3,307,458, 3–7–67, Cl. 95—1.7.

Hunsucker, Eugene R., to The Goodyear Tire & Rubber Co. Adhesive composition comprising mixture of a phenol-formaldehyde resin and a polybutadiene rubber latex. 3,300,426, 1–24–67, Cl. 260—29.3.

Hunsucker, William A. Interlocking sheet piles and method of installation. 3,302,412, 2–7–67, Cl. 61—60.

Hunsucker, William A. Floating support. 3,323,478, 6–6–67, Cl. 114—.5.

Hunt, Arthur J. Golf club carrier in the form of a trolley. 3,360,279, 12–26–67, Cl. 280—35.

Hunt, Charles d'A., to Reduction Co., Inc. High vacuum furnace. 3,343,828, 9–26–67, Cl. 266—34.

Hunt, Charles d'A., and H. R. Smith, Jr., to Temescal Metallurgical Corp. Furnace. 3,325,620, 6–13–67, Cl. 219—50.

Hunt, Charles d'A., J. V. Kerrigan, A. J. Leffler, and W. W. Martin, Jr. Manufacture of chlorinated boranes. 3,328,135, 6–27–67, Cl. 23—361.

Hunt, Charles d'A. and J. D. Merrill, to Temescal Metallurgical Corp. Prevention of splattering during vaporization processing. 3,330,647, 7–11–67, Cl. 75—93.

Hunt, Charles d'A., and J. D. Merrill, to Air Reduction Co., Inc. Prevention of splattering during vaporization processing. 3,356,487, 12–5–67, Cl. 75—10.

Hunt, Charles J., to Beattie-Cleman, Inc. Photographic processing apparatus. 3,315,583, 4–25–67, Cl. 95—94.

Hunt, Charles J., to Beattie-Coleman, Inc. Automatic photographic easel. 3,338,488, 8–29–67, Cl. 226—136.

Hunt, Claude W. Remotely controlled highway flare ejector. 3,298,307, 1–17–67, Cl. 102—37.4.

Hunt, Delvin M., and W. R. Clark, Jr. Food cookers. 3,358,587, 12–19–67, Cl. 99—421.

Hunt, Donald R., to George Kent (Stroud) Ltd. Sealed electrode assembly. 3,358,075, 12–12–67, Cl. 174—153.

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Hunt, George H., to Simplex Wire and Cable Co. Stabilized dielectric composition containing 2-bromonaphthalene. 3,346,500, 10–10–67, Cl. 252—63.2.

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Hunt, John M., to General Precision, Inc. Linear D.C. to A.C. converter. 3,324,376, 6–6–67, Cl. 321—9.

Hunt, Kenneth M.: *See*—
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Hunt, Nina E.: *See*—
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Hunt, Robert E., to Sylvania Electric Products Inc. Method for producing semiconductor devices. 3,298,087, 1–17–67, Cl. 29—155.5.

Hunt, Rowland D., to Hovercraft Development Ltd. Gas-cushion vehicles for operation over water. 3,319,592, 5–16–67, Cl. 114—67.

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Hunt, Stanley E.: *See*—
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Hunt, Stuart J., to National Automatic Tool Co., Inc. Gear tooth hardening machine indexing mechanism. 3,334,881, 8–8–67, Cl. 266—5.

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Hunter, Cecil M. Instrument for air vehicles. 3,340,731, 9–12–67, Cl. 73—182.

Hunter, D. Loyd, and J. R. Oyler. Method of treating drupaceous fruit. 3,356,511, 12–5–67, Cl. 99—193.

Hunter, Don L., and H. Steinberg, to United States Borax & Chemical Corp. Phenolic borate esters and production thereof. 3,359,298, 12–19–67, Cl. 260—462.

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Hunter Douglas International (Quebec) Ltd.: *See*—
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Hunter, Edward A., and C. L. Aldridge, to Esso Research and Engineering Co. Olefin-allyl halide copolymer. 3,299,020, 1–17–67, Cl. 260—87.5.

Hunter, Edward A., C. L. Aldridge, M. M. Lambert, and G. O. Hillard, Jr., to Esso Research and Engineering Co. Isoolefin-multiolefin copolymers through ultrasonic homogenizers. 3,301,810. 1–31–67, Cl. 260—29.7.

Hunter, Edward A., and W. A. Knarr, to Esso Research and Engineering Co. Process for forming active cuprous halide sorbents. 3,340,004, 9–5–67, Cl. 23—97.

Hunter, Edward A., W. A. Knarr, and R. J. Fritz, to Esso Research and Engineering Co. Process for preparing solid cuprous halide sorbents. 3,357,789, 12–12–67, Cl. 23—97.

Hunter, Edward I.: *See*—
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Hunter, Edward L., to Automatic Radio Mfg. Co., Inc. Radio receiver with circuit plates. 3,307,109, 2–28–67, Cl. 325—357.

Hunter, Edwin J., to Moist O'Matic Inc. Sequential timing device using plural motors. 3,304,478, 2–14–67, Cl. 318—102.

Hunter, Edwin J., to Moist O'Matic Inc. Sequential timing device. 3,306,114, 2–28–67, Cl. 74—3.52.

Hunter, Edwin J., to Moist O'Matic, Inc. Metering piston valve with cleaning means. 3,315,696, 4–25–67, Cl. 137—244.

Hunter, Edwin J., to Moist-O'Matic, Inc. Wave sprinkler providing a plurality of different velocities through a plurality of different nozzles. 3,348,776. 10–24–67, Cl. 2239—242.

Hunter, Edwin J., and D. B. Swing; said Swing assor. of 15% to said Hunter and 20% to George H. Starrett. Electric venetian blind. 3,310,099, 3–21–67, Cl. 160—171.

Hunter, Frank B., to North American Aviation, Inc. Sealing mechanism for oil diffusion pump. 3,319,876, 5–16–67, Cl. 230—101.

Hunter, George D., to Deere & Co. Cultivator clamp. 3,325,227, 6–13–67, Cl. 306—1.5.

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Hunter, Paul H., to Union Carbide Corp. Blow-molded article. 3,312,262. 4–4–67, Cl. 150—.5.

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Huntley, Wright H., Jr., and E. Tammaru, 20% to W. H. Huntley. Solid-state analog multiplier circuit. 3,304,419, 2–14–67, Cl. 235—194.

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Huppke, Glen P., to National Dust Collector Corp. Method and apparatus for collecting contaminants from gases. 3,334,470, 8–8–67, Cl. 55—90.

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Hutchins, Marlyn R., to Andrew P. Simon, d.b.a. Pak Distributing Co. Security structure for a coin meter. 3,297,-123, 1–10–67, Cl. 194—97.
Hutchins, Maryln R., to Coin Security Systems, Inc. Coin box guard device. 3,335,945, 8–15–67, Cl. 232—1.
Hutchins, Thomas B., IV, J. F. Delord, and W. C. Myers, to Tektronix, Inc. Transmission line mounting structure for semiconductor device. 3,308,352, 3–7–67, Cl. 317—234.
Hutchins, William L. Wheel cover. 3,312,505, 4–4–67, Cl. 301—37.
Hutchinson, Arthur J. L., ½ to W. L. Rifenberick. Liquid-vapor contact method and apparatus. 3,295,841, 1–3–67, Cl. 261—114.
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Wilkinson, Harry, and Hutchinson. 3,318,171.
Hutchinson, Donald C., G. M. Wylie and W. J., Sr. Transversely actuated fluid clutch. 3,305,059, 2–21–67, Cl. 192—60.
Hutchinson, Elmer R. Vehicle-moving device having four-poster type screw jack lifting means. 3,321,180, 5–23–67, Cl. 254—7.
Hutchinson, Frederick H. Combined sprinkler and burner head. 3,333,773, 8–1–67, Cl. 239—289.
Hutchinson, Harold D., and W. C. Gregge. Flow responsive switch. 3,345,478, 10–3–67, Cl. 200—81.9.
Hutchinson, James H. Self-contained beverage cooler. 3,298,-194, 1–17–67. Cl. 62—294.
Hutchinson, Keith A., to Tire Improvement Co., Inc. White sidewall applying machine. 3,329,551, 7–4–67, Cl. 156—394.
Hutchinson, Oliver C. K.: *See*—
Hutchinson, Thomas K. and O. C. K. 3,344,327.
Hutchinson, Raymond M.: *See*—
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Hutchinson, Richard E., to Field Enterprises Educational Corp. Combination bookend and bookrack and carton therefor. 3,297,164, 1–10–67, Cl. 211—42.
Hutchinson, Robert M., and D. S. Hoag, to Honeywell Inc. Pulp digester control apparatus. 3,322,616, 5–30–67, Cl. 162—238.
Hutchinson, Thomas K. and O. C. K., to The National Acme Co. Two speed motor control circuit with brake. 3,344,327, 9–26–67, Cl. 318—258.
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Cawley, William A., and Hutchison. 3,335,865.
Hutchison, Gibson T., to Crane Co. Feeder for solid materials. 3,347,741, 10–17–67, Cl. 162—241.
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Johnson, Donald W., and Hutchison. 3,317,936.
Hutchison, Miller R., Jr., and S. S. Merz, to Eastman Kodak Co. Automatic flash control device for photographic cameras. 3,307,462, 3–7–67, Cl. 95—11.
Hutchison, William R. Instrument for manipulating contact lenses. 3,304,113, 2–14–67, Cl. 294—64.
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Huthsing, Charles K., Jr. Corrosion arrestor for fire extinguisher. 3,339,638, 9–5–67, Cl. 169—30.
Hutson, Clifford L. Dental aspirator. 3,299,511, 1–24–67, Cl. 32—33.
Hutson, Colin, and K. Knowles, to The British Iron and Steel Research Association. Forging units. 3,336,787, 8–22–67, Cl. 72—420.
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Hutson, Lawrence W., to Hutson and Sons, Inc. Portable target stand. 3,355,174, 11–28–67, Cl. 273—102.
Hutson, Robert C. Reach pendant for attaching external cargo to a hovering aircraft. 3,310,333, 3–21–67, Cl. 294—78.
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Hutson, Thomas, Jr., and R. A. Loth, to Phillips Petroleum Co. Photohalogenation of hydrocarbons. 3,296,108, 1–3–67, Cl. 204—163.
Hutson, Thomas, Jr., to Phillips Petroleum Co. Removal of aluminum chloride from hydrocarbons. 3,342,885, 9–19–67, Cl. 260—671.
Hutson, Thomas, Jr., and C. O. Carter, to Phillips Petroleum Co. Alkylation process with precooled isoparaffin and HF acid catalyst. 3,346,660, 10–10–67, Cl. 260—683.49.
Hutson, Tom, Jr., and C. O. Carter, to Phillips Petroleum Co. Purification of alkylate with iron-containing material and production of chlorine. 3,330,880, 7–11–67, Cl. 260—674.
Hutt, Clyde B. Adjustable height bed. 3,305,876, 2–28–67, Cl. 5—11.
Hutt, Marland P., Jr., to Owens-Illinois, Inc. Process for the recovery of β-sitosterol from vegetable matter. 3,332,969, 7–25–67, Cl. 260—397.25.
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Hutto, John F., and R. E. Dixon, to Phillips Petroleum Co. Hydrogenation of benzene to cyclohexane. 3,318,965, 5–9–67, Cl. 260—667.
Hutto, John F., R. E. Dixon, J. W. Davison, C. A. Ayres, G. A. Renberg, and D. K. Queen, to Phillips Petroleum Co. Ethylene, butadiene production. 3,345,285, 10–3–67, Cl. 208—67.
Hutton, David G., to E. I. du Pont de Nemours and Co. Separation of hydrogen chloride from higher boiling haloalkanes. 3,347,021, 10–17–67, Cl. 55—71.
Hutton, David G., W. S. Murray, A. F. Benning, and N. J. Woodstown, deceased, by J. A. Benning, administrator, to E. I. du Pont de Nemours and Co. Process for separating ammonia from methyl chloride. 3,315,441, 4–25–67, Cl. 55—56.
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Hutton, Harry T., C. R. Goetjen, and J. M. Ogborn, said Hutton and said Goetjen assor. to Air Reduction Co., Inc. Methods of operating burners and improved burners. 3,351,-284, 11–7–67, Cl. 239—11.
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Hutton, Leland H. Oxygen lance construction. 3,302,882, 2–7–67, Cl. 239—132.3.
Hutton, Leland H. Oxygen lance construction. 3,304,009, 2–14–67, Cl. 239—132.3.
Hutton, Leland H. Method of delivering oxygen to basic oxygen furnaces, and oxygen lanes therefor. 3,309,195, 3–14–67, Cl. 75—60.
Hutton, Norman H. Grinding apparatus. 3,334,451, 8–8–67, Cl. 51—267.
Hutton, Robert S., to United States of America, Army. Process for making uniformly constituted finely divided particulate material. 3,309,777, 3–21–67, Cl. 34—5.
Hutton, Walter C. Insulated joint. 3,353,563, 11–21–67, Cl. 138—39.
Hutton, William C., R. G. Donkin, D. Allport, and W. H. Shenkle, to Rockwell Mfg. Co. Coin collection system. 3,321,129. 5–23–67, Cl. 232—16.
Hutton, William L. Drapery hook. 3,300,827, 1–31–67, Cl. 24—73.
Hutton, Willis L. Anti-glare visors. 3,346,876, 10–17–67, Cl. 2—10.
Hutwelker, Walter, to Eisen und Metall Aktiengesellschaft. Headlight shielding devices. 3,349,674, 10–31–67, Cl. 94—1.
Huval, Lee R., to Phillips Petroleum Co. Multi-stage separation apparatus and process for treating hydrocarbon mixtures. 3,322,652, 5–30–67, Cl. 203—62.
Huwyler, Ernst, and H. Wenzel, to Aktiengesellschaft Brown, Boveri & Cie. Tiltable furnace mounts. 3,310,298, 3–21–67, Cl. 266—36.
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Huxley, Edward E., and E. M. Meyer, to Phillips Petroleum Co. Removal of carbonyl sulfides from hydrocarbon fluids. 3,358,421, 12–19–67, Cl. 55—19.
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Huxtable, Robert L., and L. V. Wilson, Jr., to Phillips Petroleum Co. Solvent recovery system for rubber polymerization processes. 3,328,263, 6–27–67, Cl. 202—154.
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Huyser, Earl S., to The Dow Chemical Co. Allylic bromination process. 3,354,066, 11–21–67, Cl. 204—158.
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Hvizdos, Leonard J., and J. A. Pryor, to Air Products and Chemicals, Inc. Low-temperature fractionation process. 3,338,061, 8–29–67, Cl. 62—13.

Hwa, Chih M., to W. R. Grace & Co. Method of inhibiting foaming in aqueous systems. 3,341,467, 9–12–67, Cl. 252—321.

Hwa, Francis C. S., and L. Bajars, to Petro-Tex Chemical Corp. Unsaturated hydrocarbons by oxidative dehydrogenation over silicone-treated catalyst. 3,324,195, 6–6–67, Cl. 260—680.

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Hwang, Yu-Tang, W. A. Krewer, and W. J. Sandner, to Union Oil Co. of California. Polyalkylated benzenes from ketones. 3,301,912, 1–31–67, Cl. 260—668.

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Hyde, James F., to Dow Corning Corp. Aldehyde and ketone heat-sensitive curable organosilicon compositions. 3,344,-104, 9–26–67, Cl. 260—32.8.

Hyde, James F., to Dow Corning Corp. Room temperature curing organopolysiloxane resins. 3,350,349, 10–31–67, Cl. 260—46.5.

Hyde, James S., to Varian Associates. Gyromagnetic spectrometer having separate dispersion and absorption mode detectors. 3,350,633, 10–31–67, Cl. 324—.5.

Hyde, James S., to Varian Associates. Gyromagnetic resonance apparatus utilizing pulsed RF excitation. 3,358,222, 12–12–67, Cl. 324—.5.

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Hyde, Thomas J., to E. I. du Pont de Nemours and Co. Aromatic ester cocatalysts for lactam polymerization. 3,316,-221, 4–25–67, Cl. 260—78.

Hyde, Walter E., to Halliburton Co. Method and apparatus for accommodating telescoping action. 3,354,950, 11–28–67, Cl. 166—.5.

Hyden, Irwin F., to Eldon Industries, Inc. Finish line winner indicator. 3,315,632, 4–25–67, Cl. 116—114.

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Hyden, Seymour, and G. Wilbert, to Nepera Chemical Co., Inc. Pyridine isocyanates. 3,341,545, 9–12–67, Cl. 260—296.

Hydock, John K. Golf glove with grip locking means. 3,348,-238, 10–24–67, Cl. 2—161.

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Bush, Robert M. 3,345,710.

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Hyer, Donald R., to General Electric Co. Electromechanical recorder control slidewire providing error signals proportional to deviation of measured variable from set point over entire recorder. 3,302,112, 1–31–67, Cl. 324—99.

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Hyjek, Thaddeus J., to Sperry Rand Corp. Web carried control structure. 3,313,391, 4–11–67, Cl. 197—172.

Hylak, Peter J., to Institute of Gas Technology. Resistance heating device and method for melting concrete. 3,300,-253, 1–24–67, Cl. 299—14.

Hylak, Peter J., to Institute of Gas Technology. Method for sealing pipe and method for preparing composition useful therein. 3,307,588, 3–7–67, Cl. 138—97.

Hylan, John E., to Burroughs Corp. Printing head control allowing head to strike in free flight and be positively retracted. 3,330,398, 7–11–67, Cl. 197—16.

Hyland, Charles F., to Eureka-Carlisle Co. Card supported transparent package. 3,303,930, 2–14–67, Cl. 206—78.

Hyland, James W., Jr., to Owens-Illinois Inc. Method and apparatus for applying sheet material to corrugated board. 3,326,737, 6–20–67, Cl. 156—470.

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Hyman, Daniel, S. W. Tribit, and J. M. Witheford, to American Cyanamid Co. Purification of melamine. 3,321,477, 5–23–67, Cl. 260—249.7.

Hyman, Edward S. Hydrocarbon detection. 3,305,457, 2–21–67, Cl. 204—1.

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Hyman, Robert A., and C. F. Drake, to International Standard Electric Corp. Electrolytic current integrator. 3,349,-326, 10–24–67, Cl. 324—94.

Hymes, Irwin M., R. P. Sapher, and P. A. Tolta, to International Business Machines Corp. Terminals for microminiaturized devices and methods of connecting same to circuit panels. 3,303,393, 2–7–67, Cl. 317—101.

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Hynek, Walter J., to Johnson & Johnson. Method for producing nonwoven tuberculated foraminous textile fabric. 3,330,009, 7–11–67, Cl. 19—161.

Hynek, Walter J., W. M. Russell, and T. D. Ainslie, to Johnson & Johnson. Interliner. 3,333,280, 8–1–67, Cl. 2—143.

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Hynes, Joseph H., to Gray Tool Co. Method and apparatus for completing oil wells. 3,336,978, 8–22–67, Cl. 166—21.

Hynes, Joseph H., to Ventura Tool Co. Seal ring retaining apparatus. 3,350,104, 10–31–67, Cl. 277—9.

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Hynson, Phillip E., and W. R. Mustian, Jr., to Armour Agricultural Chemical Co. Gas scrubbing process and apparatus. 3,302,372, 2–7–67, Cl. 55—71.

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Farrand, Clair L. 3,353,095.
Farrand, Clair L. 3,356,932.
Geller, Robert Z. 3,315,253.
Tripp, Robert W. 3,328,655.

Inductotherm Corp.: *See*—
Kennedy, Theodore R. 3,314,670.
Rowan, Henry M., and Kennedy. 3,335,354.

Indugas, Gesellschaft fur Industrielle Gasverwertung m.b.H.: *See*—
Schmidt, Theodor. 3,328,988.

Induni, Giovanni, to "Patelhold" Patentverwertungs- & Elektroholding A.G. Spherical doublet antenna with transmission line feed at current nodal points. 3,307,108, 2–28–67, Cl. 325—119.

Indus Corp.: *See*—
Carrico, Ralph T., and Percifield. 3,330,169.

Industria Machine Elettroniche-I.M.E.-S.p.A.: *See*—
Rinaldi, Massimo. 3,340,524.
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Industriaktiebolaget Elektro-Variator: *See*—
Meyer, Sven F. E. 3,317,880.

Industriaktiebolaget Skomab: *See*—
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Industrial Acoustics Co., Inc.: *See*—
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Industrial Air Products, Co.: *See*—
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Industrial Boiler Co., Inc.: *See*—
Brock, James D. 3,348,759.
Brock, James D. 3,352,025.
Brock, James D. 3,352,354.

Industrial Development Bank: *See*—
Hagedorn, Hans. 3,323,285.

Industrial Devices, Inc.: *See*—
Geen, Cory P. 3,345,006.
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Industrial Dynamics Co., Ltd.: *See*—
Calhoun, Frederick L., and Dawson. 3,349,906.

Industrial Electronic Engineers, Inc.: *See*—
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Industrial Electronic Rubber Co.: *See*—
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Industrial Electronics Hardware Corp.: *See*—
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Industrial Filter & Pump Mfg. Co.: *See*—
Schmidt, Henry, Jr., and Zievers. 3,310,171.
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Combourieux, André. 3,319,567.
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Combourieux, Andre. 3,352,241.
Combourieux, Andre. 3,358,604.

Industrial Institution International, Ltd.: *See*—
Hervey, David E. 3,321,012.
Hervey, David E. 3,339,629.

Industrial Mfg. Co.: *See*—
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Industrial Nucleonic Corp.: *See*—
Badgett, Charles O. 3,300,193.
Baird, Clyde W. 3,323,045.
Brunton, Donald C. 3,310,674.
Campbell, Ross L., Jr. 3,352,499.
Chope, Henry R. 3,358,279.
Chope, Henry R. 3,358,602.
Gerhard, George R., and Doering. 3,307,215.
Hanken, Albert F. 3,323,049.
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Liu, Ko-Hsin. 3,323,048.
Martin, Robert W., and Norwich. 3,323,047.
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Industrial Pneumatic Systems, Inc.: *See*—
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Industrial Research Products, Inc.: *See*—
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Industrial Shoe Machinery Corp.: *See*—
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Industrial Supply Corp.: *See*—
Paulet, Fred J., Jr. and Gordon. 3,324,698.
Paulet, Fred J., Jr., and Gordon. 3,325,624.

Industrial Tools, Inc.: *See*—
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Industrial Vinyls, Inc.: *See*—
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Industrial Washing Machine Corp.: *See*—
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Jacobs, Heinz. 3,305,008.

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Jungermann, Werner, Niemann, Six, and Walther. 3,338,167.
Szabo, Tibor. 3,298,289.

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Eckstein, Karl-Albert. 3,309,156.
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Wintriss, George. 3,358,096.
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Ing, Samuel W., Jr., and H. A. Jensen, to General Electric Co. Integrally constructed solid state light emissive-light responsive negative resistant device. 3,358,146, 12–12–67, Cl. 250—213.

Ingalls, Charles C. Trommel-type produce cleaning machine. 3,341,877, 9–19–67, Cl. 15—3.11.

Ingalls Shipbuilding Corp.: *See*—
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Ingber, Oscar H. Apparatus for controlling the transverse dimension an elongated object such as wire, cable, tube, tape during its manufacture. 3,334,503, 8–8–67, Cl. 72—15.

Ingelman, Bjorn G.-A.: *See*—
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Ingeneri, Frank, to On-The-Spot-TV. Electrical educational and amusement device. 3,327,405, 6–27–67, Cl. 35—9.

Ingenieursbureau Rodenhuis en Verloop N.V.: *See*—
Verloop, Hendrik N. 3,342,242.

Ingeniorene Lund Mohr & Glaever-Enger: *See*—
Glaever-Enger, Karl A., and Nes. 3,314,389.

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Weibull, Claes M. 3,358,856.

Ingenito, Michael J.: *See*—
Anderson, Wilmer C., Rennie, and Ingenito. 3,319,185.

Ingenito, Michael J., to General Time Corp. Magnetic pulse counter and pulse forming circuit. 3,315,087, 4–18–67, Cl. 307—88.

Ingerfield, Maurice E., and T. H. Howells, to Pye Ltd. Volume cycled medical ventilators. 3,351,092, 11–7–67, Cl. 137—624.14.

Ingersoll, James E., to The Babcock & Wilcox Co. Tubular fluid heater and support therefor. 3,301,227, 1–31–67, Cl. 122—510.

Ingersoll Milling Machine Co., The: *See*—
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Allen, Edward L. 3,311,139.
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Ingersoll-Rand Co.: *See*—Continued
Law, John P. 3,297,199.
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Lewis, Samuel P. 3,299,971.
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Ingham, Herbert S., Jr., to Metco, Inc. Flame spraying employing laser heating. 3,310,423, 3–21–67, Cl. 117—93.

Ingham, Herbert S., Jr., to Metco, Inc. Radio frequency plasma flame spraying. 3,347,698, 10–17–67, Cl. 117—47.

Ingham, Paul W. Ground support for device for storing and dispensing balls and the like. 3,344,955, 10–3–67, Cl. 221—282.

Ingham, Robert J., to Dresser Industries, Inc. Instrument casing. 3,298,557, 1–17–67, Cl. 220—44.

Ingham, Robert J., and R. D. Bissell, to Dresser Industries, Inc. Gauge construction. 3,357,394, 12–12–67, Cl. 116—129.

Ingham, Robert M., Jr., to Deering Milliken Research Corp. Textile drafting arrangement. 3,336,637, 8–22–67, Cl. 19—245.

Ingham, Robert M., Jr., N. E. Klein, and R. V. Putnam, to Deering Milliken Research Corp. Air drafting arrangement. 3,296,664, 1–10–67, Cl. 19—288.

Ingham, William E., C. A. G. Lemay, and J. J. Jarrett, to Electric & Musical Industries, Ltd. Apparatus for recognizing poorly separated characters. 3,309,668, 3–14–67, Cl. 340—146.3.

Ingham, Richard D. Multiple clip suspension bracket. 3,329,279, 7–4–67, Cl. 211—89.

Ingildsen, Sven. Spring bed support. 3,341,868, 9–19–67, Cl. 5—317.

Ingle, James E., to Maxon Construction Co., Inc. Machine for distributing concrete material. 3,343,469, 9–26–67, Cl. 94—46.

Ingle, Kermit K. Drafting implement or device. 3,299,514, 1–24–67, Cl. 33—79.

Ingle, Robert B., to Hoerner-Waldorf Corp. Carton. 3,355,086, 11–28–67, Cl. 229—31.

Ingleby, Richard F. J. Production of N-vinyl 2-oxazolidones. 3,346,586, 10–10–67, Cl. 260—307.

Ingman, Thomas M., to Microdot, Inc. Voltage regulator with switching means introducing voltage increments into the input side. 3,350,631, 10–31–67, Cl. 323—45.

Ingmanson, John H., to The Whitney Blake Co. Retractile cord having a vulcanized ethylene-propylene-diene terpolymer jacket. 3,324,229, 6–6–67, Cl. 174—69.

Ingold, Alain, and J. Raynal, to Etablissement Davey Bickford Smith & Cie, Societe Anonyme Francaise. Manufacture of electric ignitors for detonators. 3,353,262, 11–21–67, Cl. 29—623.

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Ingraham, Joe B., D. L. Gibson, and C. H. Kucera, to The Dow Chemical Co. Composition and use thereof for water shut-off. 3,336,979, 8–22–67, Cl. 166—33.

Ingraham, Ronald D., to Introl Corp. Regulator circuit for battery chargers. 3,343,060, 9–19–67, Cl. 320—40.

Ingraham, Ronald H., and L. D. Grames, to The Air Preheater Co., Inc. Multiple expansion joint. 3,317,223, 5–2–67, Cl. 285—299.

Ingram, Alvin R., to Koppers Co., Inc. Field application of foam coatings. 3,307,788, 3–7–67, Cl. 239—138.

Ingram, Alvin R., A. J. Zupanc, and H. L. Nicholson, to Kippers Co., Inc. Expandable styrene polymers. 3,359,219, 12–19–67, Cl. 260—2.5.

Ingram, Derek G. W., to The General Electric Co., Ltd. Pulse code modulation systems. 3,306,979, 2–28–67, Cl. 179—15.

Ingram, Floyd M. Rotary blade structure. 3,321,894, 5–30–67, Cl. 56—295.

Ingram, George. Inflatable mattresses, pillows and cushions. 3,303,518, 2–14–67, Cl. 5—349.

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Ingwall, Robert H.: *See*—
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Ingwalson, Raymond W.: *See*—
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Reeves, Howard F., Jr., Ingwalson, and Kyker. 3,328,336.

Inhofer, Harold G. Weed spraying device. Re. 26,166, 3–7–67, Cl. 47—1.7.

Injection Molders Supply Co., Inc.: *See*—
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Injeski, Stanley G., to Worldsbest Industries, Inc. Collapsible clothes stand. 3,313,425, 4–11–67, Cl. 211—178.

Inka, Egons. Split circular sealing element. 3,309,096, 3–14–67, Cl. 277—222.

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Inkley, Deforest E., to Eastman Kodak Co. Protective wallet for photographic films. 3,299,928, 1–24–67, Cl. 150—39.

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Inlow, Robert S., to Aluminum Co. of America. Forming method and product. 3,333,451, 8–1–67, Cl. 72—179.

Inman, Byron N., to E. I. du Pont de Nemours and Co. Spray valve for injecting a reactant liquid into a stream of another reactant liquid. 3,347,267, 10–17–67, Cl. 137—604.

Inman, Charles E.: *See*—
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Inman, Charles G., to Hercules Inc. Method for producing a crystalline nickel salt of 1-nitroso-2-naphthol. 3,338,937, 8–29–67, Cl. 260—439.

Inman, Darwin, to Zenith Radio Corp. Ultrasonic signal generator. 3,327,679, 6–27–67, Cl. 116—137.

Inman, Donald E. Thread gauge. 3,331,136, 7–18–67, Cl. 33—199.

Inman, Eric R., H. M. Smith, and I. A. Macpherson, to J. R. Geigy A.G. Naphthindolizine and benzonaphthindolizinedione pigments. 3,328,410, 6–27–67, Cl. 260—287.

Inman, Eric R., and H. M. Smith, to J. R. Geigy A.G. Substituted naphthindolizinequinones. 3,336,317, 8–15–67, Cl. 260—288.

Inman, Fred W. Pump. 3,303,787, 2–14–67, Cl. 103—53.

Inman, John K.: *See*—
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Inman, Richard B., to Scientific Atlanta, Inc. Suction apparatus and method for de-nesting containers from stacks. 3,344,952, 10–3–67, Cl. 221—41.

Innes, David C. K. G., to Babcock & Wilcox, Ltd. Photosensitive flame monitoring circuit. 3,321,634, 5–23–67, Cl. 250—215.

Innes, Richard A.: *See*—
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Inose, Fumiyuki, to Kabushiki Kaisha Hitachi Seisakusho. Program controller. 3,339,121, 8–29–67, Cl. 317—157.

Inoshita, Kagenobu, T. Saijo, and M. Kajiue, to Toyo Spinning Co., Ltd. Viscose spinning process. 3,324,216, 6–6–67, Cl. 264—197.

Inoshita, Kagenobu, and T. Morikawa, to Toyo Spinning Co., Ltd. Water soluble cellulose ethers and their production. 3,355,449, 11–28–67, Cl. 260—231.

Inoue, Hirozumi: *See*—
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Kugita, Hiroshi, Hayashi, Oine, Inoue, and Nurimoto. 3,325,502.

Inoue, Kiyoshi. Electroluminescent multilayer stock with in situ formation of active layer and method of making same. 3,299,307, 1–17–67, Cl. 313—108.

Inoue, Kiyoshi. Method of making diamond-faced articles. 3,305,331, 2–21–67, Cl. 51—307.

Inoue, Kiyoshi. Method of and apparatus for controlling the porosity of electrically sintered bodies. 3,317,705, 5–2–67, Cl. 219—149.

Inoue, Kiyoshi. Spark plug having an electrode incorporating an electronegative material. 3,317,773, 5–2–67, Cl. 313—141.

Inoue, Kiyoshi. Battery-charging apparatus and method. 3,317,810, 5–2–67, Cl. 320—56.

Inoue, Kiyoshi. Wear- and heat-resistant materials. 3,323,911, 6–6–67, Cl. 75—128.

Inoue, Kiyoshi. Electrostatic spray device and method. 3,326,182, 6–20–67, Cl. 118—629.

Inoue, Kiyoshi. Electrolytic synthesis of metallic halides. 3,330,746, 7–11–67, Cl. 204—94.

Inoue, Kiyoshi. Discharge-machining apparatus. 3,333,081, 7–25–67, Cl. 219—69.

Inoue, Kiyoshi. Method of electrically sintering discrete bodies. 3,340,052, 9–5–67, Cl. 75—201.

Inoue, Kiyoshi. Controlled electrical diffusion in an electromagnetic field. 3,356,601, 12–5–67, Cl. 204—156.

Inoue, Kiyoshi. Ion-control system for electrochemical machining. 3,357,912, 12–12–67, Cl. 204—224.

Inoue, Kiyoshi. Method of and apparatus for the electric spray-coating of substrates. 3,358,114, 12–12–67, Cl. 219—76.

Inoue, Kiyoshi. Solid-state pulse generator for electric-discharge machining. 3,360,683, 12–26–67, Cl. 315—209.

Inoue, Masahiko, to Toyota Motor Co. Ltd. Seat for a vehicle equipped with safety belts. 3,330,599, 7–11–67, Cl. 297—388.

Inoue, Mitsuo, to C.D.M. Kabushiki Kaisha. Automatic submersible pump. 3,352,246, 11–14–67, Cl. 103—25.

Inoue, Seiichi: *See*—
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Inoue, Takayuki, K. Kato, T. Toyama and M. Takagi, to Mitsui Kagaku Kogyo Kabushiki Kaisha. Method for inhibiting growth of weeds and grasses. 3,316,080, 4–25–67, Cl. 71—2.3.

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Inoue, Toshio, T. Tahara, and T. Isogai, to Hitachi, Ltd Method of making a molded insulating cylinder. 3,340,117, 9–5–67, Cl. 156—184.

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Inoue, Yoshiya: *See*—
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Inoue, Yoshito, to Honda Giken Kogyo Kabushiki Kaisha. Package carrier. 3,301,448, 1–31–67, Cl. 224—32.

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Irikura, Tsutomu, K. Masuzawa, and K. Nishino, to Kyorin Seiyaku Kabushiki Kaisha. Bis-(phenoxyacetyl)-piperazines. 3,324,128, 6–6–67, Cl. 260—268.

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Irwin, Maurice M. Hydraulic lift attachment for vehicles. 3,311,350, 3–28–67, Cl. 254—182.

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Irwin, Winfield T., and J. H. Searles, to Pittsburgh Plate Glass Co. Fibers glass mat and method of making same. 3,338,777, 8–29–67, Cl. 161—154.

Isaac, George R. Device for delivering measured quantities of fluent material having a double ended ejector. 3,329,319, 7–4–67, Cl. 222—219.

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Isaac, Peter. Reelable structural members. 3,300,910, 1–31–67, Cl. 52—2

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Jackson, Carl F.: *See*—
Cobb, Edward S., and Jackson. 3,328,863.

Jackson, Charles R.: *See*—
Holowaty, Michael O., and Jackson. 3,316,155.

Jackson, Clark E., and S. G. Thornbury, to Purex Corp., Ltd. Combination vacuum sweeper and liquid vaporizer. 3,296,777, 1–10–67, Cl. 55—216.

Jackson, Connie L., and S. A. Medearis. Smog reduction filter for internal combustion engines. 3,326,198, 6–20–67, Cl. 123—119.

Jackson, Donald G.: *See*—
Palmberg, Herbert G., and Jackson. 3,318,254.

Jackson, Donald L., to Sylvania Electric Products, Inc. Strip lighting fixture and conector therefor. 3,349,237, 10–24–67, Cl. 240—9.

Jackson, Edward H., Jr. Rope structure. 3,323,301, 6–6–67, Cl. 57—144.

Jackson Exit Device Corp.: *See*—
Bejarano, Thomas M. 3,325,942.
Bejarano, Thomas M. 3,334,500.

Jackson, Finis W.: *See*—
Murphy, Frank W., Jr., and Jackson. 3,303,302.

Jackson, Forrest A. Lawn mower. 3,304,701, 2–21–67, Cl. 56—26.

Jackson, Frank A., to Pittsburgh Plate Glass Co. Edge lock for metal panels. 3,359,699, 12–26–67, Cl. 52—619.

Jackson, Frank H., to Eastman Kodak Co. Photographic apparatus for recording, processing, and projecting data with fast access time. 3,319,549, 5–16–67, Cl. 95—12.

Jackson, George W., to General Motors Corp. Vehicle leveling system. 3,331,616, 7–18–67, Cl. 280—124.

Jackson, George W., to General Motors Corp. Automatic leveling system. 3,339,910, 9–5–67, Cl. 267—65.

Jackson, George W., and P. J. Long, Jr., to General Motors Corp. Tube coupling having deformable gripping and sealing means. 3,332,708, 7–25–67, Cl. 285—3.

Jackson, Gerald J., Jr., and I. S. Butensky, to American Cyanamid Co. Product and process for preparing dispersible gums. 3,313,800, 4–11–67, Cl. 260—209.

Jackson, Gerald W. Tailgate torsion bar. 3,336,070, 8–15–67, Cl. 296—57.

Jackson, Gerald W., to Chrysler Corp. Latching and hinging assembly for folding seat. 3,338,633, 8–29–67, Cl. 297—379.

Jackson, Harold A. Two-wheeled motor vehicle. 3,313,365, 4–11–67, Cl. 180—6.2.

Jackson, Harold E., to Petrol Injection Ltd. Thermostatic heater. 3,323,581, 6–6–67, Cl. 165—40.

Jackson, Harold E., to Petrol Injection Ltd. Fuel injection systems. 3,330,261, 7–11–67, Cl. 123—32.

Jackson, Harold E., to Petrol Injection Ltd. Fluid flow control valves. 3,330,300, 7–11–67, Cl. 137—614.14.

Jackson, Harold E., to Petrol Injection Ltd. Fuel injector devices and systems. 3,330,541, 7–11–67, Cl. 261—23.

Jackson, Harold E., to Petrol Injection Ltd. Metering valves and control devices. 3,342,449, 9–19–67, Cl. 251—58.

Jackson, Harold E., and M. W. Weeks, to Petrol Injection Ltd. Injection moulding machines. 3,351,982, 11–14–67, Cl. 18—30.

Jackson, Harold L.: *See*—
Dettre, Robert H., Jackson, and Johnson. 3,354,022.

Jackson, Harold S., and J. B. Murtland, Jr., to Allegheny Ludlum Steel Corp. Failure detector for consumable electrode furnaces. 3,354,254, 11–21–67, Cl. 13—9.

Jackson, James G. Light projection optical apparatus. 3,318,184, 5–9–67, Cl. 88—24.

Jackson, James H.: *See*—
Melton, James O., Wilkinson, and Jackson. 3,306,640.
Melton, James O., Wilkinson, and Jackson. 3,329,454.
Melton, James O., Wilkinson, and Jackson. 3,342,513.
Melton, James O., Wilkinson, and Jackson. 3,357,728.

Jackson, James M., Jr., to The Smithers Co. Plastic florist's mesh. 3,336,696, 8–22–67, Cl. 47—41.1.

Jackson, James S.: *See*—
Medkeff, Russell J., and Jackson. 3,358,898.

Jackson, Jefferson M., Jr.: *See*—
Reiche, Charles R., and Jackson. 3,344,197.

Jackson, John A., to E. K. Cole Ltd. Movable head and tape control system. 3,345,623, 10–3–67, Cl. 340—174.1.

Jackson, John E., to Union Carbide Corp. Welding process. 3,324,278, 6–6–67, Cl. 219—137.

Jackson, John G., and E. D. Spineto, to Well Completions, Inc. Constant circulating coupling device. 3,298,385, 1–17–67, Cl. 137—112.

Jackson, John G., Jr., deceased (by Bank of the Southwest National Association, independent executor), and A. F. Rhodes, to Rockwell Mfg. Co. Remotely positionable and removable wellhead connection and sealing apparatus. 3,330,341, 7–11–67, Cl. 166—.6.

Jackson, John H.: *See*—
Joyce, John F., Jackson, and Brewer. 3,329,746.

Jackson, John P., and G. A. Boyd, to Vickers-Armstrongs (Engineers) Ltd. Control devices for hydraulic pumps and motors. 3,299,829, 1–24–67, Cl. 103—162.

Jackson, Julius, to E. I. du Pont de Nemours and Co. Nacreous pigment compositions. 3,342,617, 9–19–67, Cl. 106—291.

Jackson, Kenneth R.: *See*—
Bishop, Robert E., Jackson, Kis, and Schlesinger. 3,323,408.

Jackson, Liam R., to United States of America, National Aeronautics and Space Administration. Techniques for insulating cryogenic fuel containers. 3,321,159, 5–23–67, Cl. 244—135.

Jackson, Martin A.: *See*—
Van Zelm, Willem D., and Jackson. 3,307,832.

Jackson, Martin A., to Van Zelm Associates Inc. Drive anchors with retaining flukes. 3,302,347, 2–7–67, Cl. 52—154.

Jackson, Martin A., to Van Zelm Associates Inc. Wildcat arresting gear. 3,352,516, 11–14–67, Cl. 244—110.

Jackson, Norman G. Roof construction with file drainage means therefor. 3,318,069, 4–11–67, Cl. 52—24.

Jackson, Paul D.: *See*—
Anderson, Donald V., and Gillman. 3,359,595.

Jackson, Paul L., to Ford Motor Co. Molten metal sampling apparatus. 3,321,978, 5–30–67, Cl. 73—425.4.

Jackson, Paula. Slip covers for receptacles for food. 3,352,449, 11–14–67, Cl. 220—63.

Jackson, Philip S. Memory game having rotatable disc means for varying the symbols displayed. 3,347,549, 10–17–67, Cl. 273—130.

Jackson, Ralph N., W. R. Maclay, D. D. Metzger, and W. R. Stewart, to International Business Machines Corp. Modular circuit package utilizing solder coated areas and solder reflow joints. 3,302,067, 1–31–67, Cl. 317—101.

Jackson, Randall E. Fixture supporting bracket. 3,337,172, 8–22–67, Cl. 248—224.

Jackson, Raymond C., J. T. Harper, A. T. Williams, and J. L. Joplin, to Oil and Gas Supply Co. Concrete machinery base and method of making same. 3,334,850, 8–8–67, Cl. 248—19.

Jackson, Reginald R. G. P., to Gullick Ltd. Self-advancing hydraulically extensible mine roof supports. 3,333,426, 8–1–67, Cl. 61—45.

Jackson, Richard R. Anesthetic articles. 3,348,542, 10–24–67, Cl. 128—184.

Jackson, Richard S.: *See*—
De Shazor, James C., Jr., Burk, and Jackson. 3,348,361.

Jackson, Richard W., to Weber Marking Systems, Inc. Rolling contact through stationary member to provide pressure for cutting stencil. 3,307,673, 3–7–67, Cl. 197—6.4.

Jackson, Robert A.: *See*—
Zucker, David, and Jackson. 3,342,648.

Jackson, Robert A. F., to Heatovent Electric Ltd. Storage block adapted for storage and exchange of heat. 3,301,251, 1–31–67, Cl. 126—400.

Jackson, Robert C., to Monsanto Co. Yarn winding apparatus and process. 3,334,827, 8–8–67, Cl. 242—18.

Jackson, Robert E., and J. D. Culp, to McDonnell Aircraft. Method of making refractory metal structures with an oxidation resistant coating. 3,300,854, 1–31–67, Cl. 29—527.

Jackson, Robert G.: *See*—
Armstrong, Edward, and Jackson. 3,305,995.
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Jackson, Robert G., to Conch International Methane Ltd. Thermal insulation structures. 3,302,358, 2–7–67, Cl. 52—573.

Jackson, Robert G., and A. Harmens, to Conch International Methane Ltd. Process for liquefying natural gas. 3,312,073, 4–4–67, Cl. 62—9.

Jackson, Robert L., and R. M. Campbell, to Chevron Research Co. Earth formation core protractor. 3,331,134, 7–18–67, Cl. 33—75.

Jackson, Robert L., Jr., to American Air Filter Co., Inc. Method of making filamentous mats. 3,342,658, 9–19–67, Cl. 156—174.

Jackson, Robert T.: *See*—
Ald, Joseph J., and Jackson. 3,357,631.

Jackson, Robert T., to Continental Can Co., Inc. Flip-flap carton. 3,351,267, 11–7–67, Cl. 229—44.

Jackson, Samuel G. Conditioning hopper. 3,357,061, 12–12–67, Cl. 19—66.

Jackson, Stuart P., to Solidstate Controls, Inc. Regulated A.C.-D.C. converter system. 3,310,728, 3–21–67, Cl. 321—18.

Jackson, Thomas M., to International Standard Electric Corp. Reflex klystron having a two-potential reflector electrode. 3,325,670, 6–13–67, Cl. 315—5.19.

Jackson, Thomas W., to Georgia Tech Research Institute. Rocket propulsion system. 3,352,111, 11–14–67, Cl. 60—251.

Jackson, Walter F., to Vann Industries, Inc. Heating apparatus. 3,329,416, 7–4–67, Cl. 263—19.

Jackson, Walter F., and A. W. Denning, to Vann Industries, Inc. Tobacco stitching machine. 3,335,878, 8–15–67, Cl. 214—5.5.

Jackson, Wendell T., to Hexcel Corp. Method and apparatus for the manufacture of honeycomb product. 3,356,555, 12–5–67, Cl. 156—205.

Jackson, Wilbur. Flip-flop alarm system with lamp test circuit. 3,345,628, 10–3–67, Cl. 340—310.

Jackson, Wilbur C.: *See*—
Jepson, Ivar, Schuessler, Jackson, and Jensen. 3,349,263.
Spohr, Albert R., and Jackson. 3,333,681.

Jackson, Wilbur F., and H. C. Braucksiek, to Robertshaw Controls Co. Thermostatic control with limit switch. 3,325,099, 6–13–67, Cl. 236—21.

Jackson, William G., and W. Schroeder, to Burdick & Jackson Laboratories, Inc. Self-polymerizable benzopyrazine monomers and process for the preparation thereof. 3,326,915, 6–20–67, Cl. 260—250.

Jackson, William R.: *See*—
Rearwin, Earl M., and Jackson. 3,303,535.

Jackson, William W., to Deere & Co. Tool carrier. 3,308,891, 3–14–67, Cl. 172—456.

Jackson, William W., to Deere & Co. Outrigger type chisel plow. 3,354,966, 11–28–67, Cl. 172—311.

Jackson, Winston J., Jr.: *See*—
Caldwell, John R., and Jackson. 3,317,466.
Caldwell, John R., and Jackson. 3,320,210.
Caldwell, John R., and Jackson. 3,355,414.
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Caldwell, John R., Perry, and Jackson. 3,351,645.

Jackson, Winston J., Jr., and J. R. Caldwell, to Eastman Kodak Co. Polycarbonates from substituted 4,4'-(cyclohexylmethylene) bis(2,6-dichlorophenols). 3,299,000, 1–17–67, Cl. 260—47.

Jackson, Winston J., Jr., and J. R. Caldwell, to Eastman Kodak Co. Chlorinated pivalolactones and polymers thereof. 3,300,451, 1–24–67, Cl. 260—78.3.

Jackson, Winston J., Jr., and J. R. Caldwell, to Eastman Kodak Co. High temperature-resistant polycarbonates and process. 3,326,854, 6–20–67, Cl. 260—47.

Jackson, Winston J., Jr., and J. R. Caldwell, to Eastman Kodak Co. Chlorinated polyesters. 3,356,631, 12–5–67, Cl. 260—31.2.

Jackson, Winston J., Jr., and J. R. Caldwell, to Eastman Kodak Co. Fire-retardant polycarbonates. 3,357,942, 12–12–67, Cl. 260—45.7.

Jackson, Woodrow. Positive centering brake assembly. 3,331,475, 7–18–67, Cl. 188—78.

Jacky, Germaine F.: *See*—
Clark, Wesley I., Griggs, Hays, and Jacky. 3,347,768.

Jacob, Carl N., to National Distillers and Chemical Corp. Polyolefins stabilized with phosphites, phenols, and benzotriazoles. 3,322,718, 5–30–67, Cl. 260—45.8.

Jacob, Don M.: *See*—
Graves, Ross E., Jacob, and Sacks. 3,308,380.

Jacob, Ezekiel J., ½ to M. S. Striker. Plastic articles of manufacture and methods of preparing the same. 3,353,981, 11–21–67, Cl. 117—8.

Jacob, Theodore A.: *See*—
Inamine, Edward S., Jacob, and Vitali. 3,331,828.

Jacob, Theodore A., R. A. Vitali, J. W. Rothrock, and E. S. Inamine, to Merck & Co., Inc. Isolation of 5'-guanylic acid by formation of 5'-suanylic and dioxanate. 3,300,477, 1–24–67, Cl. 260—211.5.

Jacob, Walter E. W.: *See*—
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Hoffmann, Walter, and Jacob. 3,302,987.

Jacobellis, Alphonse A. Method of manufacturing a jacketed spaced-wall accumulator. 3,331,117, 7–18–67, Cl. 29—157.

Jacobi, Ernst, and H. Beck. Pneumatic cleaning installation. 3,317,947, 5–9–67, Cl. 15—312.

Jacobi, Haireddin: *See*—
Kunz, Wilhelm, Jacobi, Koch, and Geus. 3,309,406.

Jacobi, Oskar. Coal face support systems. 3,348,381, 10–24–67, Cl. 61—45.

Jacobi, Paul F., to Tecumseh Products Co. Internal combustion engine speed governor. 3,323,504, 6–6–67, Cl. 123—103.

Jacobin, Leo, and W. C. M. Gielen, to International Standard Electric Corp. Device for setting the angular position of a first object with respect to a second. 3,296,875, 1–10–67, Cl. 74—89.15.

Jacobs, Albert J., to E. J. Carline. Rotary piston pump with dual chambers. 3,314,370, 4–18–67, Cl. 103—132.

Jacobs, Alfred G. Mouth protector. 3,312,218, 4–4–67, Cl. 128—136.

Jacobs, Arthur F., to Prudential Lighting Corp. Lighting fixture and method of installing same. 3,328,576, 6–27–67, Cl. 240—51.11.

Jacobs, Arthur W. Injection molding machine. 3,307,223, 3–7–67, Cl. 18—30.

Jacobs, Charles E., and A. Telen, to United States of America, Army. System for the marking of radar echoes and other signals of observed objects on a radar screen. 3,298,021, 1–10–67, Cl. 343—6.

Jacobs, Charles T. Consumable anode electrode arc welding. 3,309,491, 3–14–67, Cl. 219—74.

Jacobs, Charles T. Behind-the-lens spot-metering in single-lens-reflex cameras. 3,347,143, 10–17–67, Cl. 95—42.

Jacobs, Cornelis A. J., and A. J. G. C. Driessen, to North American Philips Co. Inc. High pressure mercury vapour halogen having an electrode thermally insulated from lead-in conductor. 3,349,276, 10–24–67, Cl. 313—211.

Jacobs, Daniel A., and J. B. Duke, to Minerals & Chemicals Philipp Corp. Grinding method. 3,313,492, 4–11–67, Cl. 241—21.

Jacobs, David M. Refrigerant-containing food or beverage container. 3,326,013, 6–20–67, Cl. 62—294.

Jacobs, David R., to Franklin Electric Co., Inc. Limit switch control for a motor drive. 3,306,997, 2–28–67, Cl. 200—47.

Jacobs, Edward C., to American Can Co. Self-adjusting stripping fingers. 3,295,351, 1–3–67, Cl. 72—344.

Jacobs, Edward N. Auto seat cover with support inserts. 3,301,591, 1–31–67, Cl. 297—219.

Jacobs, Eric W.: *See*—
Atkinson, Cyril J., and Jacobs. 3,313,176.

Jacobs, F. L., Co.: *See*—
Blake, Jack W. 3,351,404.
Blake, Jack W. 3,355,232.

Jacobs, Fred. Air conditioning apparatus. 3,315,733, 4–25–67, Cl. 165—48.

Jacobs, Gilbert C., to Everbrite Electric Signs, Inc. Illuminatable display sign drums with ventilating means therefore. 3,348,038, 10–17–67, Cl. 240—47.

Jacobs, Gunter: *See*—
Schutte, Theodor, and Jacobs. 3,296,009.

Jacobs, Harold, to United States of America, Army. Variable reflector of electromagnetic radiation. 3,305,863, 2–21–67, Cl. 343—18.

Jacobs, Heinz, to Industrie-Companie Kleinwefers Konstruktions und Handelsgesellschaft m.b.H. Pipes for a recuperator. 3,305,008, 2–21–67, Cl. 165—145.

Jacobs, James W., to General Motors Corp. Process for dehydrating a sealed motor compressor unit. 3,299,524, 1–24–67, Cl. 34—1.

Jacobs, James W., to General Motors Corp. Self-cleaning filter. 3,302,795, 2–7–67, Cl. 210—391.

Jacobs, James W., to General Motors Corp. Refrigerating apparatus including defrost means. 3,309,888, 3–21–67, Cl. 62—156.

Jacobs, James W., to General Motors Corp. Coulometric control. 3,321,635, 5–23–67, Cl. 250—218.

Jacobs, James W., to General Motors Corp. Method of manufacturing polyurethane foam using a gas to create sonic energy. 3,326,787, 6–20–67, Cl. 204—159.11.

Jacobs, James W., to General Motors Corp. Electric hot plate. 3,330,939, 7–11–67, Cl. 219—449.

Jacobs, James W., to General Motors Corp. Clothes washing machine with a roller drive mechanism having a fluid coupling. 3,331,227, 7–18–67, Cl. 68—23.

Jacobs, James W., to General Motors Corp. Fluid metering device. 3,344,960, 10–3–67, Cl. 222—335.

Jacobs, James W., and B. L. Brucken, to General Motors Corp. Apparatus for intermittently rotatingly tumbling clothes. 3,331,141, 7–18–67, Cl. 34—133.

Jacobs, John H. Incinerator for refuse material. 3,310,009, 3–21–67, Cl. 110—8.

Jacobs, John H., to Bell & Howell Co. Oscillographic recording with coherent light. 3,324,478, 6–6–67, Cl. 346—108.

Jacobs, Lewis W., and R. J. Sabatella, to General Electric Co. Circuit breaker load center. 3,309,580, 3–14–67, Cl. 317—119.

Jacobs, Lorenz: *See*—
Bittner, Hans Joachim, and Jacobs. 3,337,325.

Jacobs Mfg. Co., The: *See*—
Haviland, Girard S. 3,332,405.
Kennedy, John C., and Haviland. 3,322,890.
McCarthy, Donald J., and Haviland. 3,325,166.

Jacobs, Marcellus L., to Jacobs Wind Electric Co., Inc. Retaining wall for waterways. 3,326,005, 6–20–67, Cl. 61—37.

Jacobs, Norman D., to The Babcock & Wilcox Co. Steam generator lagging assembly including flashing and clip members. 3,338,004, 8–29–67, Cl. 52—62.

Jacobs, Orville W.: *See*—
Brooks, Dewey H., Jr., and Jacobs. 3,307,388.

Jacobs, Paul F.: *See*—
Nies, Nelson P., and Jacobs. 3,300,278.

Jacobs, Philip C., Jr. High-voltage fuses having zig-zag shaped fuse link. 3,319,029, 5–9–67, Cl. 200—120.

Jacobs, Philip C., Jr., to The Chase-Shawmut Co. Electric quartz-sand-filled fuse adapted to interrupt effectively protracted small overload currents. 3,341,674, 9–12–67, Cl. 200—120.

Jacobs, Robert B.: *See*—
Miller, Charles E., and Jacobs. 3,298,221.

Jacobs, Robert B., to Sundstrand Corp. Mass flow measuring system. 3,333,468, 8–1–67, Cl. 73—194.

Jacobs, Robert B., and L. T. Wright, to Standard Oil Co. In situ retorting of oil shale using nuclear energy. 3,342,257, 9–19–67, Cl. 166—11.

Jacobs, Robert C. L., to Wahlfeld Mfg. Co. Method of forming treadway. 3,302,436, 2–7–67, Cl. 72—256.

Jacobs, Robert L.: *See*—
Atkinson, Jerry T., and Jacobs. 3,329,299.

Jacobs, Stanley C., to Aluminum Co. of America. Purification of aluminum. 3,303,019, 2–7–67, Cl. 75—68.

Jacobs, William A. Extruded parison severing method. 3,308,216, 3–7–67, Cl. 264—99.

Jacobs, William H., to Jet Spray Cooler, Inc. Dispensing valve. 3,342,384, 9–19–67, Cl. 222—481.

Jacobs, William L., and G. G. Bernard, to Union Oil Co. of California. Method of treating a subterranean formation with a foam bank. 3,330,346, 7–11–67, Cl. 166—9.

Jacobs Wind Electric Co., Inc.: *See*—
Jacobs, Marcellus L. 3,326,005.

Jacobsen, Finn, to A B Platmanufaktur. Method of producing a conical pail and machine for carrying out the method. 3,354,680, 11–28–67, Cl. 72—126.

Jacobsen, Helmuth. Pipe aligning tool. 3,330,021, 7–11–67, Cl. 29—200.

Jacobsen, Jerome G., to Westinghouse Electric Corp. Clothes washer. 3,327,506, 6–27–67, Cl. 68—4.

Jacobsen, Leif S. Milling machine improvements. 3,332,321, 7–25–67, Cl. 90—11.

Jacobsen Mfg. Co.: *See*—
Heth, Sherman C., and Lewis. 3,306,370.
Heth, Sherman C., Lewis, and Ronning. 3,331,195.
Kaufman, Vernon R. 3,326,196.
Price, Warren H. 3,334,429.

Jacobson, Paul W., to H. G. Weber and Co., Inc. Three dimensional web shifting apparatus. 3,300,114, 1–24–67, Cl. 226—180.

Jacobsen, Paul W., to H. G. Weber and Co., Inc. Sandwich type adjustable sensing nozzle. 3,340,886, 9–12–67, Cl. 137—83.

Jacobsen, Paul W., to H. G. Weber and Co., Inc. Fluid operated sensing head. 3,341,099, 9–12–67, Cl. 226—19.

Jacobsen, Paul W., to H. G. Weber and Co., Inc. Control system. 3,343,459, 9–26–67, Cl. 91—3.

Jacobsen, Samuel C.: *See*—
Boggs, Wilburn A., Esral, and Jacobsen. 3,351,421.

Jacobsen, Walter H., to General Plastic Corp. of America. Bird feeder. 3,314,397, 4–18–67, Cl. 119—18.

Jacobsohn, Theodore, B. Julien, and H. and K. Meyer, to Air-Tech Industries, Inc. Inflatable building. 3,307,301, 3–7–67, Cl. 52—2.

Jacobson, Alden H., to The Heald Machine Co. Grinding machine. 3,299,579, 1–24–67, Cl. 51—115.

Jacobson, Arthur F.: *See*—
Jacobson, Sidney I. 3,316,951.

Jacobson, Arvid W.: *See*—
Gillette, Frank N., Gray, and Jacobson. 3,308,811.

Jacobson, Ben. Excess paint remover. 3,329,307, 7–4–67, Cl. 220—90.

Jacobson, Chester F., to General Electric Co. Portable electric cigarette lighter. 3,351,736, 11–7–67, Cl. 219—267.

Jacobson, Clifford R.: *See*—
Frith, Robin P., and Jacobson. 3,316,761.

Jacobson, Clyde A. Drinking fountain attachment. 3,335,957, 8–15–67. Cl. 239—25.

Jacobson, Don L. Portable lantern float. 3,307,208, 3–7–67, Cl. 9—8.3.

Jacobson, Eric W., to Colonial Broach & Machine Co. Broach. 3,317,984, 5–9–67, Cl. 29—95.1.

Jacobson, Grant H.: *See*—
Jensen, Arnold E., and Jacobson. 3,315,731.

Jacobson, Gunnar, to Aktiebolaget Bofors. Missiles. 3,296,929, 1–10–67, Cl. 89—1.806.

Jacobson, Harold D.: *See*—
Jacobson, Sidney I. 3,316,951.

Jacobson, Harvey. Lock nut. 3,352,342, 11–14–67, Cl. 151—21.

Jacobson, Harvey B.: *See*—
Brandon, Clarence W. 3,302,720.

Jacobson, Harvey W. Container convertible into a storage cabinet component. 3,338,651, 8–29–67, Cl. 312—240.

Jacobson, Howard C. Gear transfer mechanism. 3,338,114, 8–29–67, Cl. 74—665.

Jacobson, Howard W., to E. I. du Pont de Nemours and Co. Protected columbium or tantalum article. 3,307,925, 3–7–67, Cl. 29—195.

Jacobson, Howard W., to E. I. du Pont de Nemours and Co. Process of forming protective coatings on columbium and tantalum using a fluidized bed. 3,307,964, 3–7–67, Cl. 117—71.

Jacobson, Irenus C. Underwater exploration device. 3,324,239, 6–6–67, Cl. 178—6.8.

Jacobson, Irvin D. Heater leg construction. 3,320,932, 5–23–67, Cl. 122—13.

Jacobson, John W., and J. W. Poole, to General Electric Co. Altitude or pressure responsive controls. 3,355,992, 12–5–67, Cl. 91—47.

Jacobson, Julius. Clamp and holder combination. 3,332,654, 7–25–67, Cl. 248—221.

Jacobson, Norman, D. W. Brownawell, and E. N. Kresge, to Esso Research and Engineering Co. Thickening agents for liquid hydrocarbons. 3,336,121, 8–15–67, Cl. 44—7.

Jacobson, Norman A., and E. A. Wilder, to S. C. Johnson & Son, Inc. Polyalkoxylated and polyaryloxulated derivatives of di(hydroxyaromatic)alkanoic acids. 3,297,746, 1–10–67, Cl. 260—473.

Jacobson, Robert E., to Radiant Mfg. Corp. Collapsible portable projection screen. 3,314,467, 4–18–67, Cl. 160—24.

Jacobson, Robert L.: *See*—
Taylor, John H., and Jacobson. 3,336,216.

Jacobson, Sava W. Monaural to stereo automatic switching system for an FM multiplex stereo radio receiver. 3,297,825, 1–10–67, Cl. 179—15.

Jacobson, Sidney. Accessory for steam pressing device. 3,318,029, 5–9–67, Cl. 38—97.

Jacobson, Sidney I.: ⅓ each to A. F. and H. D. Jacobson. Golf bag carrying case. 3,316,951, 5–2–67, Cl. 150—52.

Jacobson, Walter E., to Revere Corp. of America. Load cell device. 3,315,203, 4–18–67, Cl. 338—5.

Jacobus, Dwight W.: *See*—
Dahlgren, John A., and Jacobus. 3,306,072.

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Jacobus, Dwight W., to General Electric Co. Household refrigerator including automatic ice maker and control means therefor. 3,327,493, 6–27–67, Cl. 62—137.

Jacobus, Dwight W., and W. C. Bodong, to General Electric Co. Hydraulic ice maker. 3,300,998, 1–31–67, Cl. 62—135.

Jacoby, Abraham, to Electro-Optical Systems, Inc. Wideband amplifier utilizing common electron beam for interaction with high-frequency traveling-wave line and with low-frequency electron multiplier. 3,296,483, 1–3–67, Cl. 315—3.5.

Jacoby, Abraham S., to Ampex Corp. Magnetic head assembly with means for heat dissipation. 3,319,238, 5–9–67, Cl. 340—174.1.

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Jacoby, Charles W., F. W. Tubbs, T. C. Wilson, and O. D. Storm, to Allied Chemical Corp. Acid treatment of polyester resins containing alkylene oxide. 3,296,219, 1–3–67, Cl. 260—78.4.

Jacoby, George V., to Radio Corp. of America. Motor control apparatus. 3,325,715, 6–13–67, Cl. 318—293.

Jacoby, George V., to Radio Corp. of America. Tape reel servo. 3,345,008, 10–3–67, Cl. 242—55.12.

Jacoby, Gerald B., to General Motors Corp. Screw type master cylinder assembly. 3,357,182, 12–12–67, Cl. 60—54.6.

Jacoby, Harold E. Method and apparatus for the concentration of liquids. 3,299,942, 1–24–67, Cl. 159—17.

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Jacox, Gordon L., to Atlantic Research Corp. Foam-filled transducer. 3,353,150, 11–14–67, Cl. 340—10.

Jacquelin, Guy, to Centre Technique de l'Industrie des Papiers, Cartons et Celluloses. Process and apparatus for the refining of fibers used in the manufacture of paper. 3,311,308, 3–28–67, Cl. 241—28.

Jacques, James K., to Albright & Wilson (Mfg.) Ltd. Lubricants containing synergistic wear inhibitors. 3,360,463, 12–26–67, Cl. 252—32.7.

Jacquignon, Norbert, to C. A. Merminod. Forms of ovules. 3,342,181, 9–19–67, Cl. 128—260.

Jacubenta, John. Magnetic holder for coolant and other fluid supply conduits. 3,312,401, 4–4–67, Cl. 239—283.

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Jaeger, Horst, H. Nachbur, and A. Maeder, to Ciba Ltd. Polymerizable monomers containing phosphorus and process for their manufacture. 3,351,617, 11–7–67, Cl. 260—78.5.

Jaeger, Karl, to Linde A.G. Method of removing propane and other hydrocarbons from gases. 3,342,545, 9–19–67, Cl. 23—4.

Jaeger, Karl H., to Goetzewerke Friedrich Goetze A-G. Apparatus for introducing and removing packets of piston rings from machine tools. 3,326,393, 6–20–67, Cl. 214—1.

Jaeger, Rudolph. Adjustable surgical head lamp. 3,344,267, 9–26–67, Cl. 240—59.

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Jaeger, Ulric R., to Olin Mathieson Chemical Corp. Method producing heat exchangers. 3,334,400, 8–8–67, Cl. 29—157.3.

Jaeger, Ulric R., to Olin Mathieson Chemical Corp. Method of making sheet metal panel. 3,340,589, 9–12–67, Cl. 29—157.3.

Jaeger, Ulric R., to Olin Mathieson Chemical Corp. Heating unit. 3,349,224, 10–24–67, Cl. 219—540.

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Jaeschke, Ralph L., to Eaton Yale & Towne Inc. Damping pulsation in electromagnetic apparatus. 3,327,145, 6–20–67, Cl. 310—93.

Jaeschke, Ralph L., to Eaton Yale & Towne Inc. Electromagnetic coupling apparatus. 3,329,247, 7–4–67, Cl. 192—84.

Jaeschke, Ralph L., and W. H. Moyer, to Eaton, Yale & Towne, Inc. Electric drives. 3,303,367, 2–7–67, Cl. 310—95.

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Jaffa, Matthew L. and D. Clamp assembly for use on screen printing machines. 3,349,698, 10–31–67, Cl. 101—126.

Jaffa, Matthew L. and D. Method and apparatus for screen printing while work is indexed. 3,357,350, 12–12–67, Cl. 101—123.

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Jaffe, Fred, to W. R. Grace & Co. Preparation of cis-decalin. 3,349,139, 10–24–67, Cl. 260—667.

Jaffe, Gunter S., to Shell Oil Co. Stabilized polypropylene coated copper and method. 3,342,637, 9–19–67, Cl. 117—232.

Jaffe, Hans, J. A. Cornely, V. F. Boswell, and D. G. Shumaker, to United States of America, Army. Piezoelectric impact fuze. 3,339,090, 8–29–67, Cl. 300—8.1.

Jaffe, Hans, and D. A. Berlincourt, to Clevite Corp. Transducing method and apparatus. 3,354,425, 11–21–67, Cl. 340—10.

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Jaffe, John C., and P. Kleinman; said Kleinman assor. to said Jaffe. Acoustical shell construction. 3,316,999, 5–2–67, Cl. 181—30.

Jaffe, Mary S., and E. G. Fridrich, to General Electric Co. Flexible electroluminescent device and light transmissive electrically conductive electrode material therefor. 3,315,111, 4–18–67, Cl. 313—108.

Jaffe, Philip M., to Westinghouse Electric Corp. Processing of electroluminescen phosphors. 3,303,141, 2–7–67, Cl. 252—301.6.

Jaffe, Philip M., to Westinghouse Electric Corp. Green-yellow emitting europium alumino silicate phosphor. 3,359,210, 12–19–67, Cl. 252—301.4.

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Jäfvert, Erik W., to Aktiebolaget Bofors. Round feeding mechanism for automatic guns for discharging rounds from a round magazine. 3,331,281, 7–18–67, Cl. 89—33.

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Jäfvert, Erik W., to Aktiebolaget Bofors. Round feeding mechanism for an automatic gun. 3,322,036, 5–30–67, Cl. 89—45.

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Jagaciak, George J., to Olin Mathieson Chemical Corp. Aluminum base alloy. 3,346,376, 10–10–67, Cl. 75—147.

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Jager, Cornelis, to North American Philips Co., Inc. Grinding device comprising a disc-shaped grinder and guide faces for the tool to be round. 3,334,446, 8–8–67, Cl. 51—128.

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Jagger, Ernest T., and G. W. Halliday, to George Angus & Co. Ltd. Shaft seals. 3,347,554, 10–17–67, Cl. 277—134.

Jagger, Hubert, to T. B. Hirschberg, Jr. Checkwriter with two position prefix bar. 3,306,187, 2–28–67, Cl. 101—20.

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Jahns, Hans, to H. Krantz. Multi-stage circulators. 3,297,307, 1–10–67, Cl. 259—97.

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Jain, Padam C., and N. Anand, to Council of Scientific and Industrial Research. 1-aminopyridyl-4-(phenyl or pyridyl)-piperazines and intermediates. 3,306,903, 2–28–67, Cl. 260—268.

Jakab, Leslie, to Johnson & Johnson. Petrolatum product containing a uniformly dispersed gas. 3,342,722, 9–19–67, Cl. 208—20.

Jakacki, Edwin J., to United States Gypsum Co. Plaster composition. 3,305,375, 2–21–67, Cl. 106—109.

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Jakeway, Gerald V., to Keeler Brass Co. Method of assembling a body member and a stud to produce a unitary structure. 3,345,736, 10–10–67, Cl. 29—509.

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Jakob, Franz, and J. P. Simson also known as H.-P. Simson, to Agfa Aktiengesellschaft. Assemblies including an alternating current device attachment to be battery-driven. 3,356,856, 12–5–67, Cl. 307—64.

Jakob, Fritz, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Process for liquefaction of C and heavier hydrocarbons from natural gas with removal of CO_2 and H_2O impurities. 3,318,103, 5–9–67, Cl. 62—13.

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Jalava, Oscar W. Drill press work holding apparatus. 3,359,836, 12–26–67, Cl. 77—63.

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James, David W., to Ford Motor Co. Impeller making. 3,354,529, 11–28–67, Cl. 29—156.8.

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James, Howell N., and E. C. Collins, to International Harvester Co. Sieve construction and the like. 3,334,744, 8–8–67, Cl. 209—394.

James, Hubert H. Brick laying machine. 3,325,960, 6–20–67, Cl. 52—749.

James, Ivanhoe J. P., to Electric & Musical Industries Ltd. Television cameras. 3,340,356, 9–5–67, Cl. 178—5.4.

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James, John C., R. J. Wineman, and M. H. Gollis, to Monsanto Research Corp. Diamine oxyalkyl compounds. 3,352,917, 11-14-67, Cl. 260—584.
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Jarvis, Brian C., S. G. Fitch, and L. H. Howes, to Moviecol Sales, Ltd. Cinematographic apparatus. 3,310,360, 3-21-67, Cl. 352—104.

Jarvis, Charles L. Wheel chair ramp. 3,341,874, 9-19-67, Cl. 14—71.

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Jarvis, John S., to Ronsomes, Sims & Jefferies Ltd. Dressing shoes for grain threshing mechanisms. 3,334,739, 8-8-67, Cl. 209—19.

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Jasinski, Edward and E. Jasinski, Jr. Mail deposit box. 3,300,128, 1-24-67. Cl. 232—17.

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Jasinski, Victor: *See*—
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Jasionowski, Joseph J., to Ferro Corp. Surface unit assembly. 3,305,667, 2-21-67, Cl. 219—447.

Jasionowski, Joseph J., to Ferro Corp. Support for a coiled electric heating element. 3,327,966, 6-27-67, Cl. 248—205.

Jasionowski, Joseph J., to Ferro Corp. Plug-in surface unit. 3,328,562, 6-27-67, Cl. 219—451.

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Jasklewicz, Edmund M.: *See*—
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Jasmand, Karl, to Kupfer-Asbest Co. Seal with bearing and guiding sections. 3,330,605, 7-11-67, Cl. 308—3.5.

Jasny, Jan. Lens for color photography. 3,299,773, 1-24-67, Cl. 88—24.

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Jasper, John C., and B. C. Rau, to Continental Can Co., Inc. Container. 3,348,727, 10-24-67, Cl. 220—54.

Jasper, Karl T., deceased (by G. Haarmann, administrator), H. W. vom Felde, and H. Buttner, to Bergbaustahl G.m.b.H. Mine roof supporting method. 3,313,114, 4-11-67, Cl. 61—45.

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Jass, John E., and R. J. Sullivan, to Caterpillar Tractor Co. Self-loading scraper. 3,296,715, 1-10-67, Cl. 37—8.

Jassniker, Kurt, to Sulzer Bros. Ltd. Turbine. 3,358,965, 12-19-67, Cl. 253—40.

Jaster, Erich H. E., deceased, by M. J. Jaster, and R. E. Schoepe, heirs, to ASF Fleitverschulss G.m.b.H. Package or wrapper of plastic material. 3,338,285, 8-29-67, Cl. 150—3.

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Jatczak, Chester F., to The Timken Roller Bearing Co. Air hardening bearing steel and bearings made therefrom. 3,298,827, 1-17-67, Cl. 75—128.

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Javaux, Gustave, to Glaverbel. Process and plant for manufacturing flat glass on a molten metal and solid support bed. 3,323,890, 6-6-67, Cl. 65—65.

Javaux, Gustave, to Glaverbel. Method of and apparatus for the production of a fire-polished glass strip. 3,326,651, 6-20-67, Cl. 65—65.

Javaux, Gustave, to Glaverbel. Method and apparatus for drawing glass strips off of a molten metal bath. 3,331,672, 7-18-67, Cl. 65—65.

Javaux, Gustave, to Glaverbel. Means for the thermal homogenisation of glass for the purpose of drawing it in sheet form. 3,353,944, 11-21-67, Cl. 65—203.

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Jaye, Seymour, D. H. Lee, Jr., and J. R. Triplett, to United States of America, Atomic Energy Commission. Nuclear reactor and method of fuel management therefor. 3,309,-277, 3-14-67, Cl. 176—16.

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Jeanmonod, Maurice, J. P. Dubois, and J.-C. Schneider, to Fabrique d'horlogerie Chs. Tissot et Fils S.A., Le Locle. Watch case. 3,355,875, 12-5-67, Cl. 58—91.

Jeannin, Robert A. A., and H. Kagan, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Process of forming a viscous suspension of powdered metal and a thickening agent. 3,328,203, 6-27-67, Cl. 136—29.

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Jebens, Ray H., and E. N. Sieder, to United States of America, Interior. Multiflash distillation with recycle of concentrate through up-stream condenser and flash stages. 3,320,-137, 5-16-67, Cl. 202—173.

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Jenkins, Robert B., Sr. 3,348,269.
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Jenkins, Walter W., to The National Acme Co. Milling mechanism. 3,301,135, 1–31–67, Cl 90—15.
Jenkins, William J. Fan belt adjuster. 3,306,121, 2–28–67, Cl. 74—242.15.
Jenkinson, Frederic W., to Systron-Donner Corp. Analog to digital conversion apparatus. 3,305,856, 2–21–67, Cl. 340—347.
Jenkinson, Frederic W., to Systron-Donner Corp. Counter and method. 3,324,311, 6–6–67, Cl. 307—88.5.
Jenkinson, John V.: *See*—
Uhlir, Arthur, Jr., and Jenkinson. 3,297,922.
Jenkner, Herbert, to Chemische Fabrik Kalk G.m.b.H. Flameproofed synthetic resins. 3,347,822, 10–17–67, Cl. 260—45.75.
Jenkner, Kurt W., to General Precision Systems Inc. Photosensitive character reading apparatus. 3,346,739, 10–10–67, Cl. 250—219.
Jenks, Arthur E., and D. W. Ginn, to Television Audit Corp. Radio and television audience survey system. 3,299,355, 1–17–67, Cl. 325—31.
Jenks, Carl W. Plating and general utility tank of the knockdown type. 3,337,086, 8–22–67, Cl. 220—63.
Jenks, Carl W. Portable barrel plating unit. 3,345,282, 10–3–67, Cl. 204—213.
Jenks, Frederick P., and E. J. Williams, to Primus Mfg., Inc. Distance measuring by friction wheel instruments. 3,307,265, 3–7–67, Cl. 33—141.
Jenks, John D., and O. K. Nilssen, to Ford Motor Co. Electromechanical oscillator with variable duty cycle. 3,304,482, 2–14–67, Cl. 318—330.
Jenks, Stephen M., E. L. Tindall, and H. S. Orr, to United States Steel Corp. Method of reducing width of metal slabs. 3,358,358, 12–19–67, Cl. 29—528.
Jenks, Wilbur R. Sled ski. 3,297,334, 1–10–67, Cl. 280—12.

Jenks, William R., to E. I. du Pont de Nemours and Co. Process for preparing hydrogen cyanide. 3,360,335, 12–26–67, Cl. 23—151.
Jennie, Fred L.: *See*—
Russell, Fred J., Armstrong, and Jennie. 3,321,942.
Russell, Fred J., Armstrong, and Jennie. 3,336,769.
Jennings, Arvil A.: *See*—
Crist, Francis H., Jennings, and Hill. 3,323,220.
Jennings, Charles E., Jr., to The Renner Co. Road roller. 3,303,762, 2–14–67, Cl. 94—50.
Jennings, Charles E., Jr., to The Renner Co. Truck mounted material conveyer. 3,331,519, 7–18–67, Cl. 214—509.
Jennings, Clyde E., and C. A. Rowland. Water re-use system. 3,318,449, 5–9–67, Cl. 210—104.
Jennings, David C., to United Aircraft Corp. Ventilated space suit. 3,345,641, 10–10–67, Cl. 2—2.1.
Jennings, Earl R., to Pan American Petroleum Corp., Casing patch. 3,297,092, 1–10–67, Cl. 166—207.
Jennings, Ermont V., to Burroughs Corp. Powder evaporation apparatus. 3,344,768, 10–3–67, Cl. 118—48.
Jennings, G. B., to The Pandjiris Weldment Co. System for measuring speeds of workpieces rotated by motor. 3,348,144, 10–17–67, Cl. 324—70.
Jennings, Garland B., and G. J. Kliner, to The B. F. Goodrich Co. High impact, heat and chemical resistant blends of chlorinated polyvinyl chloride and chlorinated polyethylene. 3,299,182, 1–17–67, Cl. 260—897.
Jennings, Harry C., deceased, by H. C. Jennings, Jr., executor, to Everest & Jennings, Inc. Adjustable legrest for wheel chairs. 3,301,595, 1–31–67, Cl. 297—437.
Jennings, Harry C., Jr.: *See*—
Jennings, Harry C. 3,301,595.
Jennings, Irving C. Evacuation system. 3,315,879, 4–25–67, Cl. 230—45.
Jennings, Irving C. Control for sewage ejectors and sump pumps. 3,302,575, 2–7–67, Cl. 103—26.
Jennings, Irving C. Vacuum pump. 3,351,272, 11–7–67, Cl. 230—79.
Jennings, Jesse A. Treatment table with locking means. 3,351,051, 11–7–67, Cl. 128—24.
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Jennings, Lloyd E. Nutcracker. 3,310,083, 3–21–67, Cl. 146—16.
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Jennings, Marvin D., B. A. Shader, and R. J. Frase, to International Harvester Co. Planter. 3,320,909, 5–23–67, Cl. 111—51.
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Curtis, Charles G., and Jennings. 3,314,608.
Jennings Radio Mfg. Corp.: *See*—
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Hawkins, Jack S. 3,336,664.
Lindsay, Wesley N. 3,346,933.
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Jennings, Robert E., to C. M. C. Corp. Ceramic coatings. 3,348,355, 10–24–67, Cl. 53—28.
Jennings, Samuel J., to Community Gin Co. Rotary cotton gin. 3,357,060, 12–12–67, Cl. 19—50.
Jennings, William A., to Economy Froms Corp. Multiple friction collar assembly. 3,301,517, 1–31–67, Cl. 248—221.
Jennings, William A., to Economy Forms Corp. Friction collar assembly. 3,323,815, 6–6–67, Cl. 287—52.03.
Jennings, William O., G. Robinson, W. F. Atkins, deceased (by D. I. Atkins, administratrix), and N. Geoffrey, to National Research Development Corp. Indexing devices. 3,345,886, 10–10–67, Cl. 74—826.
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Jenny, Dietrich A., to Hughes Aircraft Co. Electronic circuit assembly with recessed substrate mounting means. 3,316,458, 4–25–67, Cl. 317—101.
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Jenny, Robert W., to The Boeing Co. Automatic anti-friction dual ratio motion converter. 3,295,385, 1–3–67, Cl. 74—424.8.
Jenny, Rudolf, to Schweiter Engineering Works Ltd. Method and apparatus for the processing of undesired yarn conditions appearing at an automatic winding machine. 3,304,015, 2–14–67, Cl. 242—35.6.
Jenny, Rudolf, to Maschinenfabrik Schweiter AG. Yarn guide mechanism for a winding location. 3,346,205, 10–10–67, Cl. 242—43.2.
Jenny, Rudolf, to Maschinenfabrik Schweiter AG. Precision cross-winding apparatus. 3,346,207, 10–10–67, Cl. 242—45.
Jenny, Rudolf, to Maschinenfabrik Schweiter AG. Yarn remainder feeler. 3,358,941, 12–19–67, Cl. 242—36.
Jenny, Walter, to Ciba Ltd. Process for the production of phthaloylpyrrocolines. 3,309,400, 3–14–67, Cl. 260—295.
Jenny, Walter, I. Hari, M. Staeuble, and K. Weber, to Ciba Ltd. Vat dyestuffs. 3,300,491, 1–24–67, Cl. 260—249.
Jens, Wilmer C., to M. H. Detrick Co. Apparatus for removing solids from hot gases. 3,353,800, 11–21–67, Cl. 261—3.
Jensen, Alan K., to Monroe International Corp. Article sensing apparatus. 3,322,261, 5–30–67, Cl. 198—232.
Jensen, Alan K., to Litton Business Systems, Inc. Apparatus for checking reading errors in a magnetic card system record. 3,349,369, 10–24–67, Cl. 340—146.1.
Jensen, Arne, to Danfoss A/S. Unitary multiple solid state switch assembly. 3,358,192, 12–12–67, Cl. 317—101.
Jensen, Arnold E., and G. H. Jacobson, to Modine Mfg. Co. Vehicle air conditioner. 3,315,731, 4–25–67, Cl. 165—42.
Jensen, Axel G., to H. Robbins. Load supporting system. 3,308,972, 3–14–67, Cl. 214—10.
Jensen, Carl F.: *See*—
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Cordis, Nat. 3,329,127.
Jensen, Carl J., to Shield Laboratories, Inc. Method for reducing fermentation time of bread dough. 3,309,203, 3–14–67, Cl. 99—91.
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Jensen, Fred H. Linkage type switch control for temperature responsive means. 3,309,486, 3–14–67, Cl. 200—122.
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Jensen, Gunnar B., and A. D. Winther. Fish egg sorting. 3,297,157, 1–10–67, Cl. 209—73.
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Jensen, Hans A., and A. H. Eberman, to Mayer, Oscar & Co., Inc. Vacuum gripping apparatus. 3,300,063, 1–24–67, Cl. 214—1.
Jensen, Hans A., and A. H. Eberman, to Oscar Mayer & Co., Inc. Alternative print drums for applying indicia to moving sheet. 3,306,197, 2–28–67, Cl. 101—212.
Jensen, Hans A., and A. H. Eberman, to Oscar Mayer & Co., Inc. Method and apparatus for continuously forming packages. 3,349,540, 10–31–67, Cl. 53—22.
Jensen, Hans, and A. H. Eberman, to Oscar Mayer & Co., Inc. Packaging of free flowing materials. 3,353,325, 11–21–67, Cl. 53—22.
Jensen, Hans A., and A. H. Eberman, to Oscar Mayer & Co., Inc. Label applying mechanism. 3,358,991, 12–19–67, Cl. 271—61.
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Jensen, Herman G., and H. H. Bostrom, to The Seeburg Corp. Income totalizing device. 3,323,719, 6–6–67, Cl. 235—100.
Jensen, Herman G., and J. E. Wright, Jr., to The Seeburg Corp. Income totalizing device. 3,339,839, 9–5–67, Cl. 235—100.
Jensen, Hermann B. F. Automation of working machines. 3,317,894, 5–2–67, Cl. 340—147.
Jensen, Hermann B. F. Sequentially operable automatic control systems. 3,320,589, 5–16–67, Cl. 340—147.
Jensen, Hermann B. F. Automation control system for working machines or the like. 3,321,744, 5–23–67, Cl. 340—163.
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Jensen, James L., to Honeywell Inc. Control apparatus. 3,348,130, 10–17–67, Cl. 323—22.

Jensen, James L., to Honeywell, Inc. Battery charging circuit responsive to generator output voltage and current. 3,350,-619, 10-31-67, Cl. 320—32.

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Jensen, John L., to Railroad Permanent Way Products Corp. Automatic yard switch. 3,317,725, 5-2-67, Cl. 246—445.

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Jensen, Lloyd, to Johnston Testers, Ltd. Drill stem testing apparatus. 3,353,609, 11-21-67, Cl. 166—149.

Jensen, Louis K., and G. H. Towner, to TRW Inc. Spherically symmetric gyro. 3,295,379, 1-3-67, Cl. 74—5.6.

Jensen, Melvin J., ½ to Wallace H. Jerome. Poultry conveying and tripping device. 3,298,500, 1-17-67, Cl. 198—177.

Jensen, Nathan K. Low pressure alarm valve. 3,351,088, 11-7-67, Cl. 137—517.

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Jensen, Otto, to I-T-E Circuit Breaker Co. Rotor resistance control circuit for reversible A.-C. motors. 3,302,086, 1-31-67, Cl. 318—210.

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Jensen, Otto, to I-T-E Circuit Breaker Co. Anti-slip relay for hoist control. 3,334,287, 8-1-67, Cl. 318—369.

Jensen, Otto, to Conchemco Inc. Method and composition for tinting oil and water base paints. 3,353,973, 11-21-67, Cl. 106—308.

Jensen, Otto, and I. K. Dortort, to I-T-E Circuit Breaker Co. Zero reactance transformer. 3,314,031, 4-11-67, Cl. 336—195.

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Coleman, Charles H., Jr., Felix, and Jensen. 3,340,367.

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Jensen, Thomas H., to Pittsburgh Plate Glass Co. Method of and apparatus for controlling heating element temperature. 3,308,270, 3-7-67, Cl. 219—497.

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Jensen, Villy J., to Novo Terapeutisk Laboratorium A/S. Process for the recovery of plasminogen from blood serum or blood plasma. 3,332,852, 7-25-67, Cl. 195—66.

Jensen, Villy J., to Novo Terapeutisk Laboratorium A/S. Process in the recovery of plasminogen from a blood component of mammalian animals. 3,335,068, 8-8-67, Cl. 195—66.

Jensen, Villy J., to Novo Terapeutisk Laboratorium A/S. Purification of plasminogen. 3,340,156, 9-5-67, Cl. 195—66.

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Jenssen, Sigvald T., Sr. Bed tray. 3,340,826, 9-12-67, Cl. 108—49.

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Jeppson, Morris R., to Cryodry Corp. Process for cooking bacon with microwave energy. 3,321,314, 5-23-67, Cl. 99—107.

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Jepsen, Robert E., H. F. Villaume, A. R. Winters, and F. J. Zimmerman, to Air Products and Chemicals, Inc. Cryogenic refrigeration system. 3,320,755, 5-23-67, Cl. 62—45.

Jepsen, Robert L., to Varian Associates. Ion vacuum pumps. 3,319,875, 5-16-67, Cl. 230—69.

Jepsen, Robert L., to Varian Associates. Cooling apparatus for cathode getter pumps. 3,331,975, 7-18-67, Cl. 313—7.

Jepson Ivar, and V. Laama, to Sunbeam Corp. Pressing iron. 3,308,566, 3-14-67, Cl. 38—77.

Jepson, Ivar, and L. M. Roszyk, to Sunbeam Corp. Electric shaver. 3,311,763, 3-28-67, Cl. 310—50.

Jepson, Ivar, S. J. Dokos, and S. H. Bielak, to Sunbeam Corp. Can opener. 3,313,023, 4-11-67, Cl. 30—4.

Jepson, Ivar, J. Wied, and G. R. Wolter, to Sunbeam Corp. Vacuum cleaner. 3,321,794, 5-30-67, Cl. 15—337.

Jepson, Ivar, and G. R. Wolter, to Sunbeam Corp. Food mixer. 3,333,824, 8-1-67, Cl. 259—1.

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Schroder, Ludwig, Thomas, and Jerchel. 3,321,481.

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Jermundson, Erling. Educational game devices. 3,343,278, 9-26-67, Cl. 35—9.

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Jerolamon, David: *See*—
Fuhrmann, Robert, and Jerolamon. 3,304,293.
Fuhrmann, Robert, Koff, and Jerolamon. 3,297,675.

Jerome, Elwood L., and G. C. Burns, to Pneumo Dynamics Corp. Servo actuator. 3,338,136, 8-29-67, Cl. 91—3.

Jerome, Jack. Method of connecting cable end. 3,320,659, 5-23-67, Cl. 29—155.5.

Jerome, Jack. Apparatus for splicing electrical cables. 3,353,-448, 11-21-67, Cl. 90—12.

Jerome, Joseph C., to United States of America, Navy. Method of polishing hygroscopic materials. 3,295,938, 1-3-67, Cl. 51—293.

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Jessup, James O., to Wood Conversion Co. Cushion construction. 3,327,333, 6-27-67, Cl. 5—355.

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Jester, Alfred, R. Langpape, and J. Bohdansky, to Brown, Boveri & Cie, Aktiengesellschaft. Apparatus for separately adjusting the vapor pressures of two or more substances in a common vapor chamber. 3,353,037, 11-14-67, Cl. 310—4.

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Grant, James H., and Jester. 3,319,222.

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Jettinghoff, Paul F., to Walker Mfg. Co. Exhaust system with plural silencing units. 3,338,331, 8-29-67, Cl. 181—35.

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Jewel, Paul W., and J. Murray, to Max Factor & Co. Process and compositions for mending fingernails. 3,342,686, 9-19-67, Cl. 167—85.

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Jewell, Anthony J., and C. H. L. Goodman, to International Standard Electric Corp. Temperature control equipment. 3,335,263, 8-8-67, Cl. 219—497.

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Jewett, William E., to Bell Telephone Laboratories, Inc. Regulated power supply with overload and overvoltage protection. 3,354,378, 11-21-67, Cl. 321—14.

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Crowther, Gerald O., and Jeynes. 3,303,384.
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Williamson, Hilding V., and Job. 3,353,550.

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Jochems, Pieter J. W., H. G. Kock, and R. de Werdt, to North American Philips Co, Inc. High frequency transistor structures exhibiting low collector capacity and low base resistance. 3,324,360, 6–6–67, Cl. 317—235.

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Johansson, Nils O., to Aktiebolaget Bofors. Device for regulating the position of a track-laying vehicle in relation to the ground. 3,343,619, 9–26–67, Cl. 180—9.2.

Johansson, Nils O., P. O. L. Gustafsson, L. O. Lundin, and C. R. Svanstrom, to Aktiebolaget Bofors. Spring suspension device. 3,337,208, 8–22–67, Cl. 267—64.

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Johnson, Wayne R., to Winston Research Corp. Television recording and reproducing apparatus with substitute horizontal sync and multiplexed audio. 3,335,218, 8–8–67, Cl. 178—6.6.

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Jones, John P., Jr., to Navigation Computer Corp. Incremental magnetic tape recording system. 3,319,237, 5–9–67, Cl. 340—174.1.

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Jones, Lawrence R., to Commercial Solvents Corp. Process for preparing oximes. 3,341,590, 9-12-67, Cl. 260—566.

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Jorda, Robert M., T. J. Robichaux, and N. D. Smith, Jr., to Shell Oil Co. Process for treating oily surfaces with polyepoxide compositions. 3,355,315, 11-28-67, Cl. 117—97.

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Jordan, George W., Jr., and N. K. Lund, to Bell Telephone Laboratories, Inc. Automatic gain control circuit. 3,331,030, 7-11-67, Cl. 330—145.

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Jordan, Merrill E., H. M. Cole, W. G. Burbine, and D. L. Petterson, to Cabot Corp. Carbon black process. 3,330,679, 7–11–67, Cl. 106—307.

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Kaess, Gary, to Polaroid Corp. Camera apparatus. 3,330,193, 7–11–67, Cl. 95—11.

Kaess, Gary, and D. S. Wilson, to Polaroid Corp. Semi-automatic apparatus for withdrawing photographic film units from a film pack. 3,316,823, 5–2–67, Cl. 95—1.

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Kafka, Wilhelm, to Siemens-Schuckertwerke Aktiengesellschaft. High field strength magnetic device. 3,343,111, 9–19–67, Cl. 335—216.

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Kagan, George M., and A. L. Miller, to Esso Research and Engineering Co. Emulsion polymers of a 2-methyl alpha olefin and a dialkyl fumarate. 3,314,908, 4–18–67, Cl. 260—29.6.

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Kagan, Henri, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Pressure responsive battery charger control. 3,328,663, 6–27–67, Cl. 320—17.

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Kahili, Henry A. Oscillating wire trimming apparatus. 3,358,-343, 12–19–67, Cl. 25—105.

Kahl, Joseph. Portable motor-aspirated psychrometer. 3,303,700, 2–14–67, Cl. 73—338.6.

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Kahle, Gerald R., to Phillips Petroleum Co. Organopolylithium polymerization initiators and their preparation. 3,296,150, 1–3–67, Cl. 252—431.

Kahle, Gerald R., to Phillips Petroleum Co. Process for polymerizing isoprene with a lithium catalyst and a halogen adjuvant. 3,312,680, 4–4–67, Cl. 260—94.2.

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Kahle, Glenn W., to Deere & Co. Hydraulically engaged clutch with dual spring means and modulating valve. 3,306,408, 2–28–67, Cl. 192—85.

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Kahle, Rolf D., to OPE Controls, Inc. Data collection system. 3,320,805, 5–23–67, Cl. 73—313.

Kahlenberg, James F. Fluid flow adjustment device for manifolded dispensing nozzles. 3,357,606, 12–12–67, Cl. 222—486.

Kahlow, William. Extruder for collapsible tubes. 3,303,969, 2–14–67, Cl. 222—98.

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Kahn, Elliot, and A. Bobrowich, to Louver, Arrow and Damper Corp. Damper construction. 3,312,242, 4–4–67, Cl. 137—601.

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Kahn, Harry J. Stressed structural element. 3,315,425, 4–25–67, Cl. 52—223.

Kahn, Henry. Method of determining the proper depth of penetration of a root canal file. 3,330,040, 7–11–67, Cl. 32—57.

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Kahn, Leo M. Method of washing and centrifuging. 3,320,-624, 5–23–67, Cl. 8—159.

Kahn, Leo M. Balancing systems for extractors, particularly washing or cleaning machines. 3,330,168, 7–11–67, Cl. 74—573.

Kahn, Leo M. Apparatus for cleaning clothes and treating wash liquid. 3,353,378, 11–21–67, Cl. 68—18.

Kahn, Leonard R. Communication encoding and decoding system employing selective attenuation and phase shifting of synchronizing signals and harmonics. 3,333,052, 7–25–67, Cl. 178—5.1.

Kahn, Leonard R. Signal selection and squelch control in wideband radio receivers. 3,337,808, 8–22–67, Cl. 325—474.

Kahn, Leonard R. Compatible single-sideband system with synthesized phase modulating wave. 3,350,645, 10–31–67, Cl. 325—137.

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Kahn, Nathaniel L., R. D. Reiser, G. A. Harris, Jr., and M. Schrier, to Sangamo Electric Co. Meter encoder-transmitter. 3,312,964, 4–4–67, Cl. 340—204.

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Kahn, Walter C. Pipe heating arrangement. 3,351,738, 11–7–67, Cl. 219—301.

Kahn, Walter C., to Electro-Trace Corp. Pipe heating arrangement. 3,354,292, 11–21–67, Cl. 219—301.

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Kahrs, Karl-Heinz, A. Staller, and J. W. Zimmermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of stable aqueous dispersions of vinyl ester polymers. 3,301,805, 1–31–67, Cl. 260—29.6.

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Kain, Per, and V. Torok, to Allmanna Svenska Elektriska Aktiebolaget. Rolling mill. 3,353,384, 11–21–67, Cl. 72—19.

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Kaiser Aluminum & Chemical Corp.: *See*—
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Kaiser, Donald E., to General Electric Co. Dynamoelectric machine frame. 3,313,968, 4–11–67, Cl. 310—258.

Kaiser, Donald W., to Olin Mathieson Chemical Corp. Process improvement in amino-triazine production and oxyalkylation. 3,330,830, 7–11–67, Cl. 260—249.6.

Kaiser, Donald W., to Olin Mathieson Chemical Corp. Polyurethanes cured with guavamines. 3,341,499, 9–12–67, Cl. 260—75.

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Kaiser, Edward W. Tell-tale system for jacketed piping systems. 3,336,584, 8–15–67, Cl. 340—242.

Kaiser, Francis T.: *See*—
Brown, John W., Jr., Buesing, and Kaiser. 3,337,138.

Kaiser, George C., R. D. King, and H. M. Scislowicz, to Abbott Laboratories. Flow control clamp. 3,316,935, 5–2–67, Cl. 137—595.

Kaiser Gypsum Co., Inc.: *See*—
Bauer, Donald R. 3,300,372.
Byssing, George J. 3,320,710.
Byssing, George J. 3,349,529.
Gall, Robert W. 3,314,613.
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Kaiser, Harold D., and A. H. Mones, to International Business Machines Corp. Method of making a capacitor with a multilayered ferroelectric dielectric. 3,305,394, 2–21–67, Cl. 117—217.

Kaiser, Henry J. Golf putting training device. 3,301,561, 1–31–67, Cl. 273—186.

Kaiser, Herbert, and J. A. Bradley-Lovekin, to Avon Rubber Co. Ltd. Injector for injection moulding machines. 3,337,-921, 8–29–67, Cl. 18—30.

Kaiser Industries Corp.: *See*—
Humphreys, George B. 3,357,917.
Meisel, George M. 3,351,293.
Parlee, Norman A. D., and Mahin. 3,295,960.
Preston, Martin. 3,342,471.
Romberg, Albert K. 3,314 633.
Young, Robert R. 3,335,968.

Kaiser Jeep Corp.: *See*—
Ordorica, Miguel A., and Sauzedde. 3,295,625.

Kaiser, Johann, to Mann, Chr. Maschinenfabrik. Adjustable holding means for self-lubricating spinning or twisting rings for spinning or twisting machines. 3,338,045, 8–29–67, Cl. 57—120.

Kaiser, Karl: *See*—
Sennewald, Kurt, Vogt, Weiden, Kaiser, and Komischke. 3,354,055.

Kaiser, Karl B., to The Ingersoll Milling Machine Co. Cutter shank tightener. 3,311,023, 3–28–67, Cl. 90—11.

Kaiser, Lionel J., to Universal Match Corp. Autographic device. 3,309,112, 3–14–67, Cl. 282—1.

Kaiser, Martin. Method of forming a lock knot for coil springs. 3,344,813, 10–3–67, Cl. 140—101.

Kaiser, Oswald: *See*—
Claus, Kurt, Gehring, Geier, Marx, and Kaiser. 3,359,100.

Kaiser, Otto: *See*—
Cadus, Anton, Kaiser, Weber, Benker, and Uhr. 3,304,-282.

Kaiser, Paul: *See*—
Junghans, Helmut, and Kaiser. 3,299,814.
Junghans, Helmut, and Kaiser. 3,299,914.

Kaiser, Paul, to Messrs. Gebruder Junghans Aktiengesellschaft. Self-destroying fuze for rotating projectiles. 3,330,-209, 7–11–67, Cl. 102—71.

Kaiser, Richard B.: *See*—
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Kaiser, Stanley C. Photographic slide mount riveting press. 3,303,687, 2–14–67, Cl. 72—452.

Kaiser Steel Corp.: *See*—
Daughters, Harold H. 3,296,689.
Edeburn, Charles J. 3,314,710.
Grimoldi, Ranoldo H., and Powers. 3,325,895.
Murphy, Francis J., and Tokola. 3,328,969.
Shipman, George E. 3,343,891.

Kaiser, William H. Tool holder for bits and the like. 3,296,-683, 1–10–67, Cl. 29—96.

Kaiser, Wolfgang: *See*—
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Kaisler, Francis J., and A. Jentilet, to United States of America, Air Force. Tilt control device for search track optical system. 3,330,958, 7–11–67, Cl. 250—203.

Kaji, Aritsune: *See*—
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Kajikawa, Ryuzo, E. Hasimoto, and E. Tahara, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Apparatus for adjustment of fuel injection amount in internal combustion engines. 3,354,875, 11–28–67, Cl. 123—140.

Kajita, Takehi: *See*—
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Kajitani, Yoichi, to Kurashiki Rayon Co. Ltd. Method of manufacturing flat viscose fibers. 3,318,990, 5–9–67, Cl. 264—187.

Kajitani, Yoichi, to Kurashiki Rayon Co. Ltd. Process for preparing a viscose spinning solution, fibers formed therefrom and paper containing said fibers. 3,359,155, 12–19–67, Cl. 162—146.

Kajiue, Masaki: *See*—
Inoshita, Kagenobu, Saijo, and Kajiue. 3,324,216.

Kajiwara, Toshiyuki. Cold rolling apparatus. 3,312,416, 4–4–67, Cl. 242—78.1.

Kajiwara, Toshiyuki, to Hitachi Ltd. Thrusting devices for rolling mills. 3,326,028, 6–20–67, Cl. 72—240.

Kaken Kagaku Kabushiki Kaisha: *See*—
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Kakinuma, Atsushi: *See*—
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Kakinuma, Atsushi, and S. Yamatodani, to Takeda Chemical Industries, Ltd. Method for producing L-glutamic acid from furan compounds. 3,326,773, 6–20–67, Cl. 195—30.

Kakiuchi, Hiroshi, and H. Sato, to Sumitomo Bakelite Co. Ltd. Aromatic hydrocarbon-formaldehyde resinous condensation products and process for producing the same. 3,303,-167, 2–7–67, Cl. 260—67.

Kakizawa, Shigeki, to Nippon Electric Co. Ltd. Magnetron anode structure having cavities with rounded corners so that solder seepage cannot occur during brazing. 3,327,161, 6–20–67, Cl. 315—39.75.

Kalafatas, Nicholas J., and G. A. Consolazio, to General Foods Corp. Process of fining gelatin using phosphates and water-soluble carbonates. 3,355,444, 11–28–67, Cl. 260—118.

Kalafatas, Nicholas J., and G. A. Consolazio, to General Foods Corp. Process of fining gelatin by means of carbonate precipitation. 3,355,445, 11–28–67, Cl. 260—118.

Kalajian, Edward A. Beverage container carton with punch-out container handles. 3,315,803, 4–25–67, Cl. 206—65.

Kalamazoo Mfg. Co.: *See*—
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Kalandiak, Michael: *See*—
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Kalart Co. Inc., The: *See*—
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Schwartz, Morris, and Bender. 3,344,238.

Kalata, Daniel R., and H. H. Huston. Nestable containers. 3,347,411, 10–17–67, Cl. 220—97.

Kalav, Cevat, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Production of thioethers. 3,320,255. 5–16–67, Cl. 260—248.

Kalb, John W., to The Ohio Brass Co. Electrical conductor system. 3,328,640, 6–27–67, Cl. 317—72.

Kalb, John W., to The Ohio Brass Co. Lightning protection assembly for overhead lines. 3,360,686, 12–26–67, Cl. 317—72.

Kalbfleisch, Georg, and A. Kaltschmitt, to Svenska Rotor Maskiner Aktiebolag. Rotary regenerator with separating zone. 3,321,011, 5–23–67, Cl. 165—7.

Kalbow, Theodore W.: *See*—
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Kaleigh Industries, Ltd.: *See*—
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Kalen, Bodo, to The Ducon Co., Inc. Hanger and cyclone separator used in fluidized processes. 3,333,402, 8–1–67, Cl. 55—345.

Kalenda, Norman W., to Eastman Kodak Co. Photographic colloid transfer system. 3,326,687, 6–20–67, Cl. 96—95.

Kalenda, Norman W., to Eastman Kodak Co. Photographic colloid transfer system. 3,340,063, 9–5–67, Cl. 96—95.

Kal-Equip Co., Inc.: *See*—
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Godfrey, Robert V. 3,333,469.

Kalert, Ralph E., Jr., and D. A. Reise, to ACF Industries, Inc. Limited travel carburetor metering rod. 3,350,074, 10–31–67, Cl. 261—51.

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Kalfaian, Meguer V. Means for interpreting complex information such as phonetic sounds. 3,322,898, 5–30–67, Cl. 179—1.

Kalich, Rudolf. Mixing container for automatically mixing of hydraulically hardenable binding means. 3,330,540, 7–11–67, Cl. 259—145.

Kali-Chemie Aktiengesellschaft: *See*—
Koepernik, Karl H. 3,310,366.
Pellens, Ludwig, Honig, and Siegel. 3,348,907.
Schmid, Paul. 3,347,623.

Kalika, Peter W.: *See*—
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Kalika, Peter W., to Combustion Engineering, Inc. Wet scrubber for dirty gases. 3,358,413, 12–19–67, Cl. 55—230.

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Kalil, James, to E. I. du Pont de Nemours and Co. Process for chlorosulfonating olefinic hydrocarbon polymers using sulfuryl chloride. 3,299,014, 1–17–67, Cl. 260—79.3.

Kalina, Ben F. Can device. 3,353,700, 11–21–67, Cl. 220—1.

Kalinke, Elroy B.: *See*—
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Kalinkina, Zorja V.: *See*—
Romanchuk, Maria A., Suvorov, Kalinkina, Trostjanskaja, Tevlina, Antonova, Sokolova, Leibelman, Jaroslatseva, Schukina, Shagalov, Grinjuk, Nikiforova, Krasnova, Balashova, Kovylkina. 3,356,695.

Kalinowski, Lester W., to Broadview Chemical Corp. Primer or activator composition and method. 3,332,816, 7–25–67, Cl. 156—307.

Kalish, David: *See*—
Kulin, Saul A., Stark, and Kalish. 3,340,102.

Kalista, John E.: *See*—
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Kaliszer, Henryk, and S. V. Hayes, to National Research Development Corp. Correction balancing of rotating bodies. 3,342,083, 9–19–67, Cl. 74—573.

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Dahms, James B., and Edmonds. 3,339,979.
Dahms, James B., and Edmonds. 3,341,252.

Kalkanis, James N. Meat holding device. 3,353,578, 11–21–67, Cl. 146—218.

Kalkner, Bernhard: *See*—
Kramer, Werner, Hammerling, and Kalkner. 3,356,901.

Kalkner, Bernhard, to Licentia Patent-Verwaltungs-G.m.b.H. Short-circuit current limiter for coupled power systems. 3,356,900, 12–5–67, Cl. 317—20.

Kallaes, Elis, to Jarnbirger Aktiebolag. Tool for external machining of workpieces. 3,296,933, 1–10–67, Cl. 90—15.

Kallay, Adam G. Tape cartridge and winding mechanism. 3,343,759, 9–26–67, Cl. 242—55.19.

Kallberg, Karl A., to Sala Maskinfabriks Aktiebolag. Rotary scraping device for nodulizing drums in pelletizing plants. 3,316,585, 5–2–67, Cl. 18—1.

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Schwanekamp, Hubert, and Trzeciak. 3,325,331.
Seifried, Walter, Braunisch, and Enhart. 3,322,553.
Twele, Gunther, and Rothaug. 3,343,370.
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Kallen, George H., and R. P. Wilson. Stylus actuator. 3,333,-273, 7–25–67, Cl. 346—29.

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Kallert, Wilhelm: *See*—
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Kallet, Eli A., and P. W. Collyer, to Barnes Engineering Co. Planet sensor having a plurality of fixed detectors about two orthogonal axes and a partially attenuating mask centrally located in the field of view of the detectors and smaller than the total field of view. 3,351,756, 11–7–67, Cl. 250—83.3.

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Kallio, Niilo W. Sheath for a woodsman's tool. 3,318,499, 5–9–67, Cl. 224—2.

Kallio, Richard K., and L. Kallio, administratrix of estate of R. K. Kallio, deceased. Portable periscope for viewing public events. 3,357,777, 12–12–67, Cl. 350—301.

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Kanter, Harry, and Kallman. 3,336,601.
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Kallmann, Hartmut P., B. Kramer, and E. Weissman, to New York University. Light producing and memory means. 3,331,063, 7–11–67, Cl. 340—173.
Kallmann, Heinz E., to Gulton Industries, Inc. Ferrite memory cells and matrices. 3,315,237, 4–18–67, Cl. 340—174.
Kalman, Leo. Method and apparatus for sewing with a presser foot. 3,357,386, 12–12–67, Cl. 112—235.
Kalman, Peter G., to A. B. Dick Co. Photoconductive copy system. 3,347,669, 10–17–67, Cl. 96—1.
Kalmanek, Joseph M., to Scully-Jones. Recirculating bearing. 3,341,262, 9–12–67, Cl. 308—6.
Kalmanson, Vladimir A., to Vsesouzny Institute Nauchnoi i Tekhnicheskoi Informatsii. Thermographic reproduction apparatus wherein the original data is stored on a rotating cylinder. 3,312,822, 4–4–67, Cl. 250—65.
Kalmus, Henry P. Gravity meter. 3,336,806, 8–22–67, Cl. 73—382.
Kalning, Frederick E., to United Mattress Machinery Co. Knotting head. 3,338,273, 8–29–67, Cl. 140—101.
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Kalns, Ilmars, to Formsprag Co. Bi-directional no-back drive device. 3,335,831, 8–15–67, Cl. 192—8.
Kalocsai, Bela O., and R. F. Wrench, to Corning Glass Works. Edge form grinding. 3,313,066, 4–11–67, Cl. 51—283.
Kalopissis, Gregoire, and A. Viout, to L'Oreal. N-tertiary aminoalkyl-N'-hydrocarbon asparagine amides. 3,303,213, 2–7–67, Cl. 260—534.
Kalopissis, Gregoire, and A. Viout, to L'Oreal. Atmospheric surface active agents and method of preparing them. 3,331,781, 7–18–67, Cl. 252—152.
Kalopissis, Grégoire, A. Viout, and G. Vanlerberghe, to Societe anonyme dite: l'Oreal. N'-acyl-N'-hydrocarbon-N-tertiary aminoloweralkyl asparagines. 3,337,548, 8–22–67, Cl. 260—247.2.
Kalpin, Max L. Vehicle immobilizing means. 3,333,860, 8–1–67, Cl. 280—29.
Kalsoy, Anne S. J. Footwear with heavy sole parts. 3,305,947, 2–28–67, Cl. 36—2.5.
Kaltenbronn, James S., to Parke, Davis & Co. Thienyl-1-naphthalene acetic acids and related compounds. 3,314,974, 4–18–67, Cl. 260—332.2.
Kaltschmitt, Alfred: *See*—
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Kaluza, Ludwig, to C. Freudenberg. Apparatus for ruffling sausage casings. 3,337,906, 8–29–67, Cl. 17—42.
Kalve, Ernest. Prestressed drag shell construction or bucket. 3,352,038, 11–14–67, Cl. 37—135.
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Anner, Georg, Kalvoda, and Wieland. 3,318,925.
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Wettstein, Albert, Anner, Heusler, Kalvoda, and Ueberwasser. 3,346,601.
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Kalwaites, Frank, to Johnson & Johnson. Cross stretching machine for nonwoven webs. 3,303,547, 2–14–67, Cl. 28—1.
Kalwaites, Frank, to Johnson & Johnson. Apparatus for producing perforated nonwoven fabric. 3,325,868, 6–20–67, Cl. 19—161.
Kalwaites, Frank, to Johnson & Johnson. Apparatus for cross-laying fibrous material. 3,340,584, 9–12–67, Cl. 28—1.
Kalwaites, Frank, to Johnson & Johnson. Apertured nonwoven fabric with channels between apertures. 3,345,243, 10–3–67, Cl. 161—109.
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Kamal, Musa R., to Formica Corp. Unitary weather-resistant decorative laminate and method of making same. 3,340,137, 9–5–67, Cl. 161—184.
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Leonhardt, Horst M. 3,325,841.
Kamborian, Jacob S. Heel seat lasting with breast line pincers. Re. 26,197, 4–25–67, Cl. 12—145.
Kamborian, Jacob S. Application of cement to an insole. 3,311,938, 4–4–67, Cl. 12—145.
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Kamborian, Jacob S. Method and apparatus for cement lasting shoes. 3,359,586, 12–26–67, Cl. 12—145.
Kamborian, Jacob S., R. B. Dunlap, and H. V. D. Benken; said Dunlap and said Benken assors. to Kamborian. Apparatus for lasting footwear. Re. 26,200, 5–9–67, Cl. 12—10.5.
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Kameishi, Masayuki, R. Higuchi, and T. Niwatsukino, to Asahi Kasei Kogyo Kabushiki Kaisha. Line welding method for metals by explosives. 3,344,510, 10–3–7, Cl. 29—470.1.
Kamemoto, Yuichiro, and S. Yamagishi, to Japan Atomic Energy Research Institute. Process for reprocessing burned uranium fuel using molten bath containing ammonium nitrate. 3,322,679, 5–30–67, Cl. 252—301.1.
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Kappeler, Heini, and R. Schwyzer, to Ciba Corp., Intermediate in synthesis of α1–24 ACTH. 3,345,354, 10–3–67, Cl. 260—112.5.
Kappelhoff, Hermann, M. G. Gennerich, W. Paul, W. Steinbeck, and W. Niemeyer, to Windmoller & Holscher. Crossed-bottom sack and process and method for manufacturing same. 3,313,217, 4–11–67, Cl. 93—35.
Kappelmann, Benjamin O., and D. L. Duncan, to Precision Agricultural Machinery Co. Mulch sheet perforating apparatus. 3,333,557, 8–1–67, Cl. 111—91.
Kappenhagen, George A., and C. P. Porterfield, to The Ohio Crankshaft Co. High frequency electrical power source with pulsating control. 3,332,036, 7–18–67, Cl. 331—173.
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Kappenhagen, George A., and R. J. Avalon, to The Ohio Crankshaft Co. Two alternate conducting multivibrators powered by AC source. 3,354,350, 11–21–67, Cl. 315—205.
Kappus, Helmut: *See*—
Rodermund, Gerd, and Kappus. 3,330,103.
Kappus, Peter G., to General Electric Co. VTOL aircraft. 3,312,424, 4–4–67, Cl. 244—12.
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Kappus, Peter G., to General Electric Co. Cruise fan powerplant. 3,355,890, 12–5–67, Cl. 60—262.
Kappus, Ulrich. Hood for conduit. 3,334,660, 8–8–67. Cl. 138—39.
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Kapsambelis, Christos B., to Sylvania Electric Products Inc. Automatic gain control for ambient light effects. 3,328,590, 6–27–67, Cl. 250—219.
Kaptur, Robert E., and L. A. Kepner, to Ford Motor Co. Motor and gearing controls operate the clutch fluid controls. 3,322,248, 5–30–67, Cl. 192—3.5.
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Karassik, Igor J., and J. F. Sebald, to Worthington Corp. Supply of fresh unpolluted water by means of pasteurization and sterilization of sewage effluent. 3,296,122, 1–3–67, Cl. 210—2.
Karavias, Alexander N. Self-compensating transmission for driving and/or braking the wheels of a vehicle. 3,343,620, 9–26–67, Cl. 180—23.
Karbosky, Joseph T., to Phillips Petroleum Co. Fluid handling. 3,303,661, 2–14–67, Cl. 62—55.
Karbosky, Joseph T., to Phillips Petroleum Co. Method and apparatus for controlling the temperature of a fluid removed from a source thereof. 3,345,827, 10–10–67. Cl. 62—55.

Karbowiak, Antoni E., to International Standard Electric Corp. Waveguide for transmission of electromagnetic energy in the sub-millimeter band. 3,318,651, 5-9-67, Cl. 350—96.

Kärcher, Albert: *See*—
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Kardol, Jacobus H., to Maatschappij Van Berkel's Patent N.V. Tare device for weighing scales. 3,343,617, 9-26-67, Cl. 177—165.

Kardon, Emanuel S., to American Bag & Paper Corp. Bag. 3,342,402, 9-19-67, Cl. 229—60.

Kardon Industries, Inc.: *See*—
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Karew, Joseph J., H. W. Hess, and J. E. Jones, to Burroughs Corp. Strip line power harness. 3,320,488, 5-16-67, Cl. 317—101.

Karfo, John K. Apparatus for producing 3-dimensional form. 3,357,308, 12-12-67, Cl. 90—13.

Karge, Maxwell R. Linear motion bearing assembly. 3,353,875, 11-21-67, Cl. 308—6.

Karhu, Esko. Expansion bolt. 3,304,828, 2-21-67, Cl. 85—66.

Kari, Veikko L. Steplessly controlled differential reducer coupling. 3,324,746, 6-13-67 Cl. 74—796.

Karich, John: *See*—
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Karich, John, and A. F. Pickard, to E. J. Longyear Co. Wire line core barrel. 3,333,647, 8-1-67, Cl. 175—247.

Karikawa, Toru, K. Ito, and N. Uno, to Asahi Kogaku Koguyo Kabushiki Kaisha (English name), Asahi Optical Industry Co., Ltd. Camera shutter arrangement responsive both photoelectric and mechanical time control systems. 3,303,766, 2-14-67, Cl. 95—10.

Karin, Bert, and A. C. Baker, to Northrop Corp. Munitions for targets. 3,306,199, 2-28-67, Cl. 102—7.4.

Kariyone, Kazuo: *See*—
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Karjala, Sulo A., and F. K. Dering, to Wilson & Co., Inc. Process of treating proteins and the product thereof. 3,301,692, 1-31-67, Cl. 106—161.

Karklins, Elgin J.: *See*—
Van Ausdal, Gerald F., Gordon, and Karklins. 3,296,451.

Karklys, Joseph, to General Dynamics Corp. Bistable multivibrator with self triggering circuit utilizing level detector tunnel diodes. 3,302,132, 1-31-67, Cl. 331—113.

Karkoska, Frank D. Coating apparatus including means to rotate and translate a rod-substrate. 3,354,866, 11-28-67, Cl. 118—409.

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Willner, Oskar, and Karkutt. 3,301,373.

Karl, Anthony R. Metal gun barrel with encircling plastic layer and integral plastic sight. 3,299,558, 1-24-67, Cl. 42—76.

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Battersby, William R., Karl, and Kelley. 3,318,977.

Karl, Georg. Brush. 3,300,808, 1-31-67, Cl. 15—604.

Karl, Henry J. Filing systems. 3,315,684, 4-25-67, Cl. 129—21.

Karl, Martin. Dyeing apparatus. 3,295,340, 1-3-67, Cl. 68—27.

Karl, Robert. Automobile seat backrest locking device. 3,339,976, 9-5-67, Cl. 297—379.

Karl, Walter, to Utilux Proprietary Ltd. Terminal applying machine. 3,350,765, 11-7-67, Cl. 29—203.

Karlan, Sidney I.: *See*—
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Karlby, Henning, and W. F. Z. Lee, to Rockwell Mfg. Co. Fluid flow meter. 3,345,869, 10-10-67, Cl. 73—231.

Karlby, Henning, and W. F. Z. Lee, to Rockwell Mfg. Co. Viscosity compensated turbine flow meter. 3,355,947, 12-5-67, Cl. 73—230.

Karle, Franklin J., and E. D. Ayers, to The Dow Chemical Co. Electron source for mass spectrometers having an elongated filament and a concave focusing electrode with a resistive coating. 3,346,735, 10-10-67, Cl. 250—41.9.

Karlen, Harvey R., and D. C. Eisendrath, to Cory Corp. Beverage brewing and dispensing apparatus. 3,326,115, 6-20-67, Cl. 99—283.

Karlet, Joseph G.: *See*—
Jamison, Warner A., and Karlet. 3,333,097.

Karley, William J. Vehicle mounted aerating device for minnow buckets. 3,348,826, 10-24-67, Cl. 261—121.

Karlin, Anthony F.: *See*—
Pettyjohn, Austin E., and Karlin. 3,301,272.

Karlin, Richard A.: *See*—
Miles, John R., Karlin, Gettel, and Steiner. 3,321,620.

Karli, Robert E.: *See*—
McNinch, Herbert A., and Karli. 3,306,907.
McNinch, Herbert A., and Karli. 3,309,316.

Karlovsky, Jerry, Jr., to National Mine Service Co. Boring head having extensible arm and relatively rotated concentric cutter. 3,309,144, 3-14-67, Cl. 299—60.

Karlovsky, Jerry, Jr., to National Mine Service Co. Articulated chain type conveyor. 3,324,990, 6-13-67, Cl. 198—171.

Karlovsky, Jerry, Jr., to National Mine Service Co. Mining machine with laterally extensible trim chain sprockets and locking means therefor. 3,350,137, 10-31-67, Cl. 299—61.

Karlovsky, Jerry, Jr., C. C. Conway, and J. M. Cookson, to National Mine Service Co. Continuous miner having angularly adjustable trimmer bars. 3,309,143, 3-14-67, Cl. 299—57.

Karlovsky, Jerry, Jr., and R. A. Butler, to National Mine Service Co. Mining machine having adjustable rotary cutter heads on rotary turrets. 3,331,636, 7-18-67, Cl. 299—57.

Karlovsky, Jerry, Jr., C. C. Conway, and J. M. Cookson, to National Mine Service Co. Continuous miner having pivotal flaps between gear and conveyor trough. 3,339,982, 9-5-67, Cl. 299—57.

Karlowetz, Bruno. Die forging machine. 3,355,931, 12-5-67, Cl. 72—404.

Karlsen, Stanley A. Pulverizing earth and rock drilling head. 3,299,972, 1-24-67, Cl. 175—107.

Karlsson, Elof K., and E. C. Collins, to International Harvester Co. Rotary cleaning unit. 3,348,676, 10-24-67, Cl. 209—22.

Karlsson, Folke E., to Aktiebolaget Scania-Vabis. Supplementary gear set insertable between a main gear set and a transmission connected to the driven road wheels of a motor vehicle. 3,296,895, 1-10-67, Cl. 74—781.

Karlsson, Gosta: *See*—
Fredrikson, Bengt, Haas, Karlsson, and Rydinger. 3,334,171.

Karlsson, Gosta, and K. Folgero, to Allmanna Svenska Elektriska Aktiebolget. Vacuum degassing apparatus. 3,345,056, 10-3-67, Cl. 266—34.

Karlsson, Hans I. R. Device for automatically locking a belt or the like. 3,323,749, 6-6-67, Cl. 242—107.4.

Karlsson, Sven O.: *See*—
Grees, Karl L., and Karlsson. 3,354,326.

Karlstads Mekaniska Werkstad, Aktiebolaget: *See*—
Järdmo, Sven A. 3,331,443.
Ranhagen, Ernst G. R. and E. G. 3,317,051.

Karlyn, William M. Synchronized automatic decorating and drying apparatus. 3,315,779, 4-25-67, Cl. 198—20.

Karlyn, William M. Article transfer mechanism for decorating and drying apparatus. 3,315,780, 4-25-67, Cl. 198—20.

Karma (New Malden) Ltd.: *See*—
Richardson, Arthur W. 3,316,956.

Karmann, Thomas R., to Valley Mfg. Co. Welding tapered pipe. 3,329,329, 7-4-67, Cl. 228—17.

Karmas, George, to Ortho Pharmaceutical Corp. 3-alkylene hemithioketals and 3-enol ethers of steroids. 3,354,153, 11-21-67, Cl. 260—239.55.

Karmazin, John. Heat exchanger. 3,311,165, 3-28-67, Cl. 165—109.

Karn, Harold G., Jr. Skis storage apparatus. 3,301,369, 1-31-67, Cl. 194—65.

Karnath, Günther: *See*—
Karnath, Klaus-Jürgen, G., and K. 3,298,355.

Karnath, Gunther, to K. Karnath and M. H. Hoepli. Milking machine. 3,302,614, 2-7-67, Cl. 119—14.36.

Karnath, Kurt: *See*—
Karnath, Gunther. 3,302,614.
Karnath, Klaus-Jurgen, G., and K. 3,298,355.

Karnath, Klaus-Jurgen, G., and K. Vacuum operated milking machine. 3,298,355, 1-17-67, Cl. 119—14.46.

Karnatz, Frank A.: *See*—
Cislak, Francis E., and Karnatz. 3,335,145.

Karnes, Wilba C., ½ to H. H. Snelling. Adding oil to sealed automobile air conditioning system. 3,302,421, 2-7-67, Cl. 62—77.

Karnofsky, George B., to Blaw-Knox Co. Ice melting system. 3,338,064, 8-29-67, Cl. 62—58.

Karns, James A. Retractable trailer tongue jack. 3,314,692, 4-18-67, Cl. 280—475.

Karnuth, Delmar D. Brush attachment for shaving cream cans. 3,351,418, 11-7-67, Cl. 401—270.

Karol, Kenneth N., to AMP Inc. Shielded electrical connection device. 3,335,388, 8-8-67, Cl. 339—18.

Karol, Kenneth N., and E. S. Thall, to Radio Corp. of America. Electrode mount and method of manufacture thereof. 3,300,677, 1-24-67, Cl. 315—3.5.

Karol, Kenneth N., and T. R. Johnson, to AMP Inc. Plugboard actuating mechanism. 3,302,065, 1-31-67, Cl. 317—99.

Karol, Raymond J. Expansible reciprocating piston. 3,352,213, 11-14-67, Cl. 92—204.

Karoly, Gabriel: *See*—
Turbak, Albin F., Noshay, and Karoly. 3,299,030.

Karoly, Gabriel, to Esso Research and Engineering Co. Method of dyeing polyolefin fibers. 3,332,732, 7-25-67, Cl. 8—42.

Karoly, Gabriel, R. L. McDougall, and A. F. Turbak, to Esso Research and Engineering Co. Blending of polypropylene with nickel organic compounds to improve dyeability. 3,296,239, 1-3-67, Cl. 260—93.7.

Karoly, Gabriel, A. Noshay, and A. F. Turbak, to Esso Research and Engineering Co. Dyeable polyolefins. 3,310,548, 3-21-67, Cl. 260—93.7.

Karolyi, Jozsef: *See*—
Somogyi, Laszlo, Steingaszner, Hilnyanszky, Horvath, and Karolyi. 3,346,483.

Karow, William E.: *See*—
Simpson, Lewis E., and Karow. 3,344,704.

Karow, William E., and L. E. Simpson. Photographic method and system. 3,312,143, 4-4-67, Cl. 88—24.

Karp, Edward C., to Sanitary Scale Co. Relaceable printing type slug member. 3,308,756, 3-14-67, Cl. 101—396.

Karp, Edward C., to Sanitary Scale Co. Weigh scale with fast response lever and spring balance arrangement. 3,308,900, 3-14-67, Cl. 177—230.

Karp, Jay C., to Alpha Microelectronics Co., Inc. Integrated circuit sealing method and structure. 3,349,481, 10-31-67, Cl. 29—627.

Karp, Norman. Apparatus for handling coins. 3,297,242, 1-10-67, Cl. 232—1.

Karp, Norman. Cloth board and method for making same. 3,327,844, 6-27-67, Cl. 206—50.

Karp, Richard M.: *See*—
Horwitz, Lawrence P., and Karp. 3,339,182.
Horwitz, Lawrence P., and Karp. 3,354,296.

Karpe, Kenneth L., and M. J. Bogdanowicz, to International Audio Visual Institute Inc. Picture projector apparatus with sound synchronized with projected images. 3,339,455, 9-5-67, Cl. 88—27.

Karpenko, Alexei K., V. D. Bondareva, M. D. Malinin, M. K. Dmolsnisky, V. G. Koroleva, I. F. Poljakov, and V. I. Saveljev, to Moscowskaja Konditerskaja Fabrika Krasny Oktjabr. Method and apparatus for making milk caramel mass for manufacturing "Iris." 3,356,045, 12-5-67, Cl. 107—4.

Karper, Albert. Card filing devices. 3,326,615, 6-20-67, Cl. 312—252.

Karper, Karl, to Gebruder Bubler. Photosensitive apparatus for color testing and color control in a processing plant. 3,321,636, 5-23-67, Cl. 250—218.

Karpiel, Harvey B.: *See*—
Dell, Jack M., and Karpiel. 3,333,485.

Karpinsky, Jurij, to Ceskoslovenska akademie ved. Method and apparatus for measuring the intensity of the magnetic component of weak electromagnetic fields of radio frequencies. 3,296,533, 1-3-67, Cl. 325—363.

Karplus, Walter J. Computer. 3,317,718, 5-2-67, Cl. 235—150.31.

Karpovich, John, and W. F. Clark, to The Dow Chemical Co. Method of preparing re-expandable foam. 3,342,922, 9-19-67, Cl. 264—321.

Karr, Robert I.: *See*—
Erickson, Louis A., Klinke, and Karr. 3,346,237.

Karr, Robert L. Safety razor with adjustable guard. 3,314,147, 4-18-67, Cl. 30—60.5.

Karr, Theodore J.: *See*—
Moyer, Hallard C., Karr, and Guttman. 3,338,905.

Karr, Willis F., to Federal Engineering Co. Moving sidewalk. 3,314,517, 4-18-67, Cl. 198—16.

Karras, Elias. Air circulating member for a shoe. 3,331,146, 7-18-67, Cl. 36—3.

Karras, Ernest C., to International Telephone and Telegraph Corp. Sinewave ringing generator including a phase shift oscillator operated in a saturated mode. 3,316,502, 4-25-67, Cl. 331—108.

Karras, Thomas W.: *See*—
Hall, Harold E., and Karras. 3,350,885.

Karsay, Bela I., to Allied Chemical Corp. Pickle liquor. 3,340,015, 9-5-67, Cl. 23—293.

Karsh, Irving: *See*—
Burdorf, Donald L., Blakistone, and Karsh. 3,353,734.

Karst, William B.: *See*—
Parks, Robert F., and Karst. 3,318,551.

Karsten, Kenneth S., to R. T. Vanderbilt Co., Inc. Cleansing compositions adapted to inhibit the formation of body odor. 3,355,388, 11-28-67, Cl. 252—107.

Karstens, Edward S. Precision leveling method. 3,307,269, 3-7-67, Cl. 33—214.

Karstetter, Bruce R.: *See*—
Harrington, Roy V., and Karstetter. 3,326,703.

Karten, Marvin J., to U.S. Vitamin & Pharmaceutical Corp. Anilino-pyridinium-maleimides. 3,335,147, 8-8-67, Cl. 260—295.

Kartinen, Ernest O., and F. E. Akerlund, to Signal Oil and Gas Co. Refuse incinerating process and apparatus. 3,303,798, 2-14-67, Cl. 110—11.

Kartluke, Herbert: *See*—
Boyd, Charles A., and Kartluke. 3,320,808.

Kartridg Pak Co., The: *See*—
Brinkley, Earl, and Young. 3,316,945.
Runge, Heinz F. 3,325,965.

Karwat, Ernst, to Linde Aktiengesellschaft. Process and apparatus for the production of ammonia synthesis gas from hydrogen contalning gas mixtures. 3,327,487, 6-27-67, Cl. 62—13.

Karwat, Ernst, to Lind Aktiengesellschaft. Selective adsorption of gases at low temperature. 3,355,859, 12-5-67, Cl. 55—25.

Kasai, Toshiyasu. Novel 4-alkoxy naphthalimides. 3,310,564, 3-21-67, Cl. 260—281.

Kasajima, Kingo, to Janome Sewing Machine Co., Ldt. Brush mounting arrangement. 3,313,966, 4-11-67, Cl. 310—239.

Kasak, August: *See*—
Dulis, Edward J., and Kasak. 3,303,023.

Kasak, August, E. J. Dulis, and V. K. Chandhok, to Crucible Steel Co. of America. Heat-resistant high-strength stainless steel. Re. 26,225, 6-20-67, Cl. 75—126.

Kasakoff, Sam. Coffee maker. 3,348,469, 10-24-67, Cl. 99—320.

Kasamatsu, Yutaka: *See*—
Kimura, Yoshio, Kasamatsu, and Kagawa. 3,303,322.

Kasch, Howard: *See*—
Vought, Robert H., and Kasch. 3,355,666.

Kasehagen, Leo, to Atlas Chemical Industries, Inc. Dual feed hydrogenolysis process for glycerin and glycoes using feed of reducible sugar with hydrogenolysed residue of process. 3,341,609, 9-12-67, Cl. 260—635.

Kasher, Charles, to Boonton Molding Co., Inc. Coffee brewing apparatus with means for removing used coffee grounds. 3,307,474, 3-7-67, Cl. 99—287.

Kashima, Hiroshi, W. Kurokawa, S. Kai, and K. Oka, to Asahi Kasei Kogyo Kabushiki Kaisha. Process and apparatus for producing stretchable high bulky yarns. 3,346,931, 10-17-67, Cl. 28—1.

Kashiro, Juzo: *See*—
Minami, Muneyoshi, Tsuda, Sando, Kashiro, and Tamura. 3,337,505.

Kashiwabara Koyo: *See*—
Ototani, Tohei, Maruyama, Morooka, Matsumoto, Izumi, and Kashiwabara. 3,304,174.

Kashiwagi, Hiroshi: *See*—
Ito, Sukehiro, Ueno, and Kashiwagi. 3,328,713.

Kashiwamura, Keiji. Combination basin and work board. 3,346,886, 10-17-67, Cl. 4—187.

Kasinkas, Edward M., to Scott Paper Co. Household bag construction. 3,348,762, 10-24-67, Cl. 229—80.

Kasman, Sidney: *See*—
Green, Milton, Husek, and Kasman. 3,357,969.

Kasner, Kermit M. Parts cleaning apparatus. 3,343,555, 9-26-67, Cl. 134—111.

Kaspar, Arthur H. Multi-shelf rack. 3,300,056, 1-24-67, Cl. 211—134.

Kaspar, Bryce C. Speed measuring apparatus. 3,349,616, 10-31-67, Cl. 73—184.

Kaspar, Emanuel: *See*—
Kerb, Ulrich, Kaspar, and Wiechert. 3,303,204.
Kuhne, Manfred, and Kaspar. 3,318,919.

Kaspar, Jan: *See*—
Gutwirth, Karel, and Kaspar. 3,305,937.

Kaspar, Peter D.: *See*—
Ambrose, Paul E., Dorzey, and Kaspar. 3,328,222.

Kasparian, George, to Kasparian's, Inc. Readily expandabl pedestal construction for one or more seating units. 3,323,833, 6-6-67, Cl. 297—248.

Kasparian's, Inc.: *See*—
Kasparian, George. 3,323,833.

Kasparik, Miles F., to E. I. du Pont de Nemours and Co. Fluoroelastomers stabilized with bisulphites. 3,325,447. 6-13-67, Cl. 260—45.9.

Kaspaul, Alfred F., and J. W. Christensen, to Minnesota Mining and Mfg. Co. Electrolytic electrophotography. 3,317,409, 5-2-67, Cl. 204—18.

Kaspaul, Alfred F. and E. E., to Minnesota Mining and Mfg. Co. Process for the formation of images on a substrate. 3,333,984, 8-1-67, Cl. 117—212.

Kaspaul, Erika E.: *See*—
Kaspaul, Alfred F. and E. E. 3,333,984.

Kasper, Andrew A., to The Kendall Co. Irradiation of pressure-sensitive adhesive tape in an oxygen free state. 3,328,194, 6-27-67, Cl. 117—62.

Kasper, Andrew A., to The Kendall Co. Exposure to intense ultra violet light to improve characteristics of cellulosic fabrics in divinyl sulfone and glyoxal cross-linking processes. 3,357,784, 12-12-67, Cl. 8—116.4.

Kasper, Frank S., to Amtron, Inc. Slicing machine having automatic controls for producing groups of preselected weight. 3,334,672, 8-8-67, Cl. 146—95.

Kasper, Frank S., and R. L. Billingsley, to Amtron, Inc. Dual channel servo-amplifier circuit. 3,323,031, 5-30-67, Cl. 318—29.

Kasper, Frank S., and R. L. Billingsley, to Amtron, Inc. Matrix circuitry controlled by timing modules having individual time duration outputs. 3,350,688, 10-31-67, Cl. 340—166.

Kasper, Robert J., to The Ohio Crankshaft Co. Apparatus and method for protecting the coil of an induction melting furnace. 3,300,563, 1-24-67, Cl. 13—26.

Kasper, Robert J., to The Ohio Crankshaft Co. Coil assembly for an induction melting furnace and method of making same. 3,311,695, 3-28-67, Cl. 13—27.

Kasper, Robert J., to The Ohio Crankshaft Co. Apparatus for energizing an induction melting furnace with a three phase electrical network. 3,331,909, 7-18-67, Cl. 13—27.

Kasperowicz, Henry, and M. Gasparik, to General Electronics Corp. Method for interchanging curvature of cathode-ray tube face plate. 3,340,032, 9–5–67, Cl. 65—37.

Kaspers, Helmut: *See*—
Frank, Adolf, Grewe, and Kaspers. 3,344,163.
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Kass, Robert E.: *See*—
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Kass, Robert E., to The National Cash Register Co. Cellular polyurethanes prepared utilizing sodium borohydride as a blowing agent. 3,355,398, 11–28–67, Cl. 260—2.5.

Kassablan, William T. Gun bore protector. 3,354,569, 11–28–67, Cl. 42—1.

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Kasser, Ivan M. and A. Method for preparing viscose spinning solution. 3,354,141, 11–21–67, Cl. 260—217.

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Kassmeier, William H., to Overland Products Co., Inc. Drawbar pin. 3,350,117, 10–31–67, Cl. 280—515.

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Lavond, Robert A., Muhlstein, and Kassner. 3,341,993.

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Kast, Howard B.: *See*—
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Kast, Howard B., to General Electric Co. Control mechanism. 3,334,521, 8–8–67, Cl. 74—110.

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Kastamo, James L., R. N. Means, L. Barr, E. M. Ostrowsky, and A. R. Best, to Nibot Corp. Method and apparatus for distributing and dispensing liquid products. 3,343,719, 9–26–67, Cl. 222—1.

Kastan, Howard, to Lockheed Aircraft Corp. Helicopter rotor. 3,330,362, 711–67, Cl. 170—160.53.

Kasten, Walter, to The Bendix Corp. Water discharge device for a fuel filter water separator. 3,297,161, 1–10–67, Cl. 210—114.

Kasten, Walter, to The Bendix Corp. Filter unit having check valves insuring one-way flow. 3,302,790, 2–7–67, Cl. 210—134.

Kasten, Walter, to The Bendix Corp. Filter assembly sump drain flow regulator. 3,312,350, 4–4–67, Cl. 210—307.

Kasten, Walter, to The Bendix Corp. Fuel filter water separator. 3,312,351, 4–4–67, Cl. 210—307.

Kasten, Walter, to The Bendix Corp. Filter unit. 3,317,048, 5–2–67, Cl. 210—234.

Kasten, Walter, to The Bendix Corp. Filter condition indicator device. 3,322,279, 5–30–67, Cl. 210—90.

Kasten, Walter, to The Bendix Corp. Frangible valve member for fuse filter. 3,339,734, 9–5–67, Cl. 210—96.

Kasten, Walter, to The Bendix Corp. Filter unit with pressure responsive valve means. 3,339,735, 9–5–67, Cl. 210—100.

Kasten, Walter, to The Bendix Corp. Contamination indicator. 3,357,236, 12–12–67, Cl. 73—61.

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Kasugai, Takahiko, and S. Nojima, to Anritsu Electronic Works, Ltd. Negative resistance semiconductor devices. 3,335,337, 8–8–67, Cl. 317—234.

Kasza, Carl J., and W. J. Smith, to Huck Mfg. Co. Fastening device and method of making same. 3,300,347, 1–24–67, Cl. 148—12.3.

Katagata, Zenji, to Denki Onkyo Kabushiki Kaisha. Narrow band facsimile communicating system. 3,351,710, 11–7–67, Cl. 178—6.

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Kataoka, Hiroshi. Self-operative fire extinguisher. 3,326,295, 6–20–67, Cl. 169—26.

Kataoka, Shoei, H. Yamada, and S. Kobayashi, to Agency of Industrial Science and Technology, Ministry of International Trade and Industry. Analog computers utilizing geometrical magnetoresistance effect of high mobility semiconductors. 3,353,010, 11–14–67, Cl. 235—179.

Katchalsky, Aharon, I. Z. Steinberg, A. Oplatka, and A. Kam, to Weizmann Institute of Science. Mechanochemical engine. 3,321,908, 5–30–67, Cl. 60—1.

Katchka, Jay R., to Robertshaw Controls Co. Pressure regulator for diaphragm gas valves. 3,360,198, 12–26–67, Cl. 236—80.

Katchka, Jay R., D. McAllister, and E. B. Scharer, to Robertshaw Controls Co. Control device. 3,338,517, 8–29–67, Cl. 236—80.

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Kato, Jiro, R. Iwanaga, T. Hayama, T. Komatsu, and T. Fujii, to Ajinomoto Co., Inc. Continuous process of preparing formyl carboxylates and cyano aldehydes by the oxo reaction. 3,337,603, 8–22–67, Cl. 260—465.1.

Kato, Kaoru, and T. Akiyama, to Daikin Kogyo Kabushiki Kaisha. Manufacture of monofluoroacetyl fluoride. 3,341,581, 9–12–67, Cl. 260—544.

Kato, Keizo, S. Ide, and K. Okada, to Ajinomoto Co., Inc., and Katokura Industry Co., Ltd. Feeding silkworm larvae feed containing propionic acid. 3,295,983, 1–3–67, Cl. 99—2.

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Kato, Koichi: *See*—
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Kato, Shigehiko, to Kurashiki Rayon Co. Ltd. Device for opening crimped continuous tow for cigarette filters. 3,321,808, 5–30–67, Cl. 19—65.

Kato, Shigehiko, to Kurashiki Rayon Co. Ltd. Device for treating cigarette filter plugs. 3,358,640, 12–19–67, Cl. 118—61.

Kato, Takeaki, K. Ueda, S. Horie, T. Mizutani, K. Fujimoto, and Y. Okuno, to Sumitomo Chemical Co., Ltd. Chrysanthemum carboxylic acid esters. 3,316,275, 4–25–67, Cl. 260—326.

Kato, Takeaki, K. Ueda, S. Horie, T. Mizutani, K. Fujimoto, and Y. Okuno, to Sumitomo Chemical Co., Ltd. Chrysanthemum carboxylic acid malelmidomethyl ester insecticidal compositions. 3,318,766, 5–9–67, Cl. 167—33.

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Nakamura, Hiromichi, Katoo, Minejima, Shimizu, Satoo, Nozaki, and Doochi. 3,352,641.

Katori, Mutsuhiko, to Howa Kogyo Kabushiki Kaisha. Independent swing motion apparatus for feed roller in rectilinear comber. 3,320,643, 5–23–67, Cl. 19—225.

Katsahnias, Thomas G., to Inland Steel Co. Continuous bluing and annealing process. 3,307,981, 3–7–67, Cl. 148—6.35.

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Katsuta, Kihei, A. Nakagawa, and H. Mitsntake, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for continuous removal of contaminants from lubricating oil and apparatus therefor. 3,304,255, 2–14–67, Cl. 208—179.

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Katz, Abraham M., to Ideal Toy Corp. Animated crying doll. 3,298,129, 1–17–67, Cl. 46—118.

Katz, Abraham M., and K. W. Lindsay, to Ideal Toy Corp. Moving eye mechanism. 3,358,400, 12–19–67, Cl. 46—135.

Katz, Davies H. Aircraft navigation instruments. 3,338,096, 8–29–67, Cl. 73—178.

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Katz, Howard M., and R. C. Pryor, to Phillips Petroleum Co. Process and burner and burner assembly for LPG. 3,315,725, 4–25–67, Cl. 158—116.

Katz, Ira R., to Hartmann Luggage Co. Removable pocketed curtains for garment-carrying bags. 3,315,772, 4–25–67, Cl. 190—43.

Katz, Jacob: *See*—
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Katz, Jacob. Dispensing device having a pivoted article delivery member. 3,313,452, 4–11–67, Cl. 221—268.

Katz, Jacob. Dispensing devices. 3,333,731, 8–1–67, Cl. 221—107.

Katz, Jacob. Article dispenser having a plurality of rotatably mounted sources with actuating means. 3,339,798, 9–5–67, Cl. 221—113.

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Katz, Leonhard, to Astro Dynamics, Inc. Semi-conductor switching circuit with automatic unlock. 3,328,598, 6–27–67, Cl. 307—88.5.

Katz, Leonhard, and J. H. Sununu, to Astro Dynamics, Inc. Combined electric motor and fluid pump apparatus. 3,348,490, 10–24–67, Cl. 103—87.

Katz, Louis: *See*—
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Katz, Matthew, to General Precision Inc. Area measurement of irregular shapes. 3,308,376, 3–7–67, Cl. 324—61.

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Katz, Seymour, to General Motors Corp. Electroless nickel plating. 3,338,741, 8–29–67, Cl. 117—160.

Katz, Seymour, to General Motors Corp. Electroless nickel plating. 3,348,969, 10–24–67, Cl. 117—160.

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Katzfey, James M., and W. J. Peterson, to Hamilton Mfg. Co. Physician's examining table. 3,348,893, 10–24–67, Cl. 312—209.

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Katzman, Lawrence, and E. Briggin, to Kaz Mfg. Co., Inc. Electrode and heating chamber for vaporizers. 3,319,046, 5–9–67, Cl. 219—275.

Katzman, Lawrence, E. Briggin, A. N. D'Elia, and E. M. Stolarz, to Kaz Mfg. Co., Inc. Hood for steam facial. 3,351,737, 11–7–67, Cl. 219—271.

Katzschmann, Ewald, to Chemische Werke Witten G.m.b.H. Process for the preparation of α-monochlorohydrin monoesters of carboxylic acids. 3,321,500, 5–23–67, Cl. 260—408.

Katzschmann, Ewald, to Chemische Werke Witten G.m.b.H. Process for the preparation of tere- and isophthalic acid dichloride. 3,341,438, 9–12–67, Cl. 204—158.

Katzschmann, Ewald, to Chemische Werke Witten G.m.b.H. Process for the preparation of monophenyl ethers of glycols. 3,354,227, 11–21–67, Cl. 260—613.

Kauder, Otto S., to Argus Chemical Corp. Polyvinyl chloride resin compositions having increased resistance to heat deterioration. 3,297,629, 1–10–67, Cl. 260—45.75.

Kauder, Otto S., and A. Rosenbaum, to Argus Chemical Corp. Polyolefins stabilized with mixtures comprising a 2-hydroxy, 4-benzyloxy benzophenone, thiodipropionate and metal salt of a monocarboxylic. 3,322,705, 5–30–67, Cl. 260—23.

Kauder, Otto S., and N. L. Perry, to Argus Chemical Corp. PVC resin containing a keto acetic (A) acid ester or (B) anhydride, and a metal (A) phenolate or (B) carboxylic acid salt. 3,346,536, 10–10–67, Cl. 260—45.85.

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Kauffman, Robert J., to Narad, Inc. Method of making cellular core structures. 3,301,729, 1–31–67, Cl. 156—252.

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Kauffmann, William M., and D. Kirkholz, to Worthington Corp. Internal combustion engine. 3,309,865, 3–21–67, Cl. 60—13.

Kaufhold, Robert, B. Haase, and R. Kloss, to Veb Leuna-Werke Walter Ulbricht. Process for preparing pure gaseous formaldehyde. 3,331,191, 7–18–67, Cl. 55—91.

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Kaufman, Harold A., J. R. Kilsheimer, and H. M. Foster, to Mobil Oil Corp. Preparation of certain hydroxybenzoheterocyclic compounds. 3,317,552, 5–2–67, Cl. 260—304.

Kaufman, Harold A., and J. R. Kilsheimer, to Mobil Oil Corp. Preparation of 4-hydroxybenzothiophene in vapor phase with noble metal catalysts. 3,335,152, 8–8–67, Cl. 260—330.5.

Kaufman, Harold A., and H. M. Foster, to Mobil Oil Corp. Vapor phase synthesis of benzothiophene and derivatives thereof. 3,336,335, 8–15–67, Cl. 260—330.5.

Kaufman, Harold A., and E. J. Broderick, to Mobil Oil Corp. Solvent system for formulating carbamates. 3,342,673, 9–19–67, Cl. 167—42.

Kaufman, Harold A., R. A. Kremer, and P. R. Driscoll, to Mobil Oil Corp. Vapor phase ring closure. 3,350,409, 10–31–67, Cl. 260—332.3.

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Kaufman, Herbert C., to Olin Mathieson Chemical Corp. Meta-phenylphenoxy substituted siloxanes and process therefor. 3,354,194, 11–21–67, Cl. 260—448.8.

Kaufman, Hester M., and J. M. Tabler. Baby mattress with attached side pads. 3,321,779, 5–30–67, Cl. 5—93.

Kaufman, Ira H., and H. H. LeVeen. Photocoagulation type fiber optical surgical device. 3,327,712, 6–27–67, Cl. 128—398.

Kaufman, Irving, and A. S. Risley, to J. R. W. Inc. Ultra high frequency generating apparatus. 3,296,519, 1–3–67, Cl. 321—69.

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Kaufman, Melvin M., to United States of America, Navy. Transformer having windings between two ferrite strips. 3,351,879, 11–7–67, Cl. 336—170.

Kaufman, Melvin M., to Radio Corp. of America. Memory using charge storage diodes. 3,355,720, 11–28–67, Cl. 340—173.

Kaufman, Melvin M., to Radio Corp. of America. Memory circuit using charge storage diodes. 3,356,998, 12–5–67, Cl. 340—173.

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Kaufman, William M., and A. Di Giacomo, to General Instrument Corp. Low pass filter which dissipatively and reactively attenuates high frequencies. 3,297,969, 1–10–67, Cl. 333—79.

Kaufman, Zoltan. Device for recording television images. 3,333,277, 7–25–67, Cl. 346—107.

Kaufman, Zoltan. Disposable photographic device for recording television images. 3,339,020, 8–29–67, Cl. 178—7.4.

Kaufmann, Albert R., and A. L. Geary, to Whittaker Corp. Method for making dispersion type bodies. 3,329,744, 7–4–67, Cl. 264—.5.

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Kawahara, Fred K., and R. H. Brown, to Standard Oil Co. O,O-diesters of amino phosphonic acid. 3,352,948, 11–14–67, Cl. 260—944.

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Kelley, Everett J., to Rohm & Haas Co. N-acyl-acryloxyalkanamides, polymers thereof and methods of making them and their polymers. 3,342,791, 9–19–67, Cl. 260—86.1.

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Keskitalo, Howard O., to Caterpillar Tractor Co. Vehicle mounted loader. Re. 26,268, 9–26–67, Cl. 214—768.

Keslar, Leroy D., and J. S. Rankin, to Pittsburgh Plate Glass Co. Method of laminating transparent assemblies. 3,311,517, 3–28–67, Cl. 156—104.

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Keslin, Ralph W., to Ralph W. Keslin Inc. Self-supporting extension tower. 3,328,921, 7–4–67, Cl. 52—121.

Keslin, Ralph W., Inc.: *See*—
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Kesling, Keith K., to General Motors Corp. Sliding shelving. 3,334,954, 8–8–67, Cl. 312—304.

Kesling, Keith K., to General Motors Corp. Refrigerating apparatus. 3,338,451, 8–29–67, Cl. 220—9.

Kesling, Peter C. Method of making a dental appliance. 3,316,640 5–2–67, Cl. 32—14.

Kesnar, Maurits P.: *See*—
Burgess, Thomas H., and Kesnar. 3,310,729.

Kesselman, Morris A.: *See*—
Merritt, A. Jay, and Kesselman. 3,325,364.

Kesselman, Samuel A. Boots with means to provide air pressure under the soles. 3,339,298, 9–5–67, Cl. 36—2.5.

Kesselring, Fritz, to Siemens Aktiengesellschaft, Siemens-Schuckertwerke A.G. Pawl operated wheel mechanism for a synchronous switch. 3,337,827, 8–22–67, Cl. 335—191.

Kessler, Adriaan, to The Procter & Gamble Co. Hydrobromination process. 3,336,403, 8–15–67, Cl. 260—663.

Kessler, Adriaan, and P. F. Pflaumer, to The Procter & Gamble Co. Detergent composition. 3,332,875, 7–25–67, Cl. 252—137.

Kessler, Adriaan, and P. F. Pflaumer, to The Procter & Gamble Co. Detergent composition. 3,332,880, 7–25–67, Cl. 252—161.

Kessler, Arthur R.: *See*—
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Kessler, Barry L., to Radio Corp. of America. Memory with noise cancellation. 3,303,481, 2–7–67, Cl. 340—174.

Kessler, Claus, to Siemens-Schuckertwerke Aktiengesellschaft. Centering device for conducting liquefied arc-extinguishing gas to a high-pressure reservoir. 3,356,810, 12–5–67, Cl. 200—148.

Kessler, Cletus A., to United States of America, Navy. Flux guide for a magnetic fuze. 3,347,165, 10–17–67, Cl. 102—70.2.

Kessler, Ertman L.: *See*—
Warren, Wesley S., and Kessler. 3,306,380.

Kessler, Frederick M., to Ingersoll-Rand Co. Stress measuring device. 3,307,393, 3–7–67, Cl. 73—67.1.

Kessler, Frederick M., to Ingersoll-Rand Co. Variable volume exhaust muffler for fluids operated tools. 3,323,615, 6–6–67, Cl. 181—65.

Kessler, Gerald, to Technicon Corp. Method of forming a precipitate in a stream of liquid samples. 3,333,826, 8–1–67, Cl. 259—8.

Kessler, Gerald and M. Interlocking panel assembly. 3,332,192, 7–25–67, Cl. 52—538.

Kessler, Johann. Fuel storage tank installation leak indicator. 3,350,704, 10–31–67, Cl. 340—242.

Kessler, John O., to Radio Corp. of America. Adaptive semiconductor device. 3,341,821, 9–12–67, Cl. 340—172.5.

Kessler, Kenneth L., to Leffingwell Chemical Co. Insecticidal composition containing ground ryania and dimethyl sulfoxide. 3,321,364, 5–23–67, Cl. 167—24.

Kessler, Kenneth Q., to Deere & Co. Stalk harvesting apparatus and the like. 3,339,354, 9–5–67, Cl. 56—98.

Kessler, Leland L., to Westinghouse Electric Corp. Load demand program control. 3,339,079, 8–29–67, Cl. 307—29.

Kessler, Leo R. Guard for vehicle bumpers. 3,310,330, 3–21–67, Cl. 293—67.

Kessler, Leonard, to Quality Transparent Bag Co. Flexible container. 3,349,991, 10–31–67, Cl. 229—56.

Kessler, Milton: *See*—
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Kessler, Milton. Method of making pile weather stripping. 3,311,960, 4–4–67, Cl. 28—72.

Kessler, Milton. Method of making unitary plastic sealing cap. 3,325,576, 6–13–67, Cl. 264—318.

Kessler, Milton. Plastic self-venting gagger for sand molds. 3,343,595, 9–26–67, Cl. 164—349.

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Weiss, Bertram L., and Kessler. 3,323,657.

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Kessler, Norman H., and F. A. Lillig, to N. H. Kessler, and H. F. Derrick, tenants in common. Double impeller impact breaker. 3,344,999, 10–3–67, Cl. 241—154.

Kesslin, George, R. W. Handy, and J. R. Steinmetz, to Kay-Fries Chemicals, Inc. Wax polish compositions. 3,323,925, 6–6–67, Cl. 106—10.

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Kestel, Heinrich, to H. and P. Wacker. Reciprocating system for manually guided motor driven working device. 3,308,729, 3–14–67, Cl. 94—49.

Kesten, Patrick N., and K. Schwartzwalder, to General Motors Co. Spark plug with improved intensifier spark gap in the center electrode. 3,328,621, 6–27–67, Cl. 313—124.

Kestenman Bros. Mfg. Co.: *See*—
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Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Digital surface-positioning arrangement employing gray coding. 3,324,465, 6–6–67, Cl. 340—347.

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Ketley, Arthur D., to W. R. Grace & Co. Dibromodifluoromethane addition to olefines. 3,310,589, 3–21–67, Cl. 260—648.

Ketley, Arthur D., to W. R. Grace & Co. Process of preparing chlorinated cycloolefin. 3,326,842, 6–20–67, Cl. 260—33.8.

Ketley, Arthur D., and R. J. Ehrig, to W. R. Grace & Co. Polymerization of allyl cyclohexane with a Friedel-Crafts catalyst. 3,297,672, 1–10–67, Cl. 260—93.1.

Ketola, Veiko K. Electrically heated sauna installation. 3,299,443, 1–24–67, Cl. 4—160.

Ketter, Lyndal A., to Borg-Warner Corp. Clothes guard for washing machines. 3,330,137, 7–11–67, Cl. 68—23.

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Ketterer, Stanley J., to The Singer Co. Tufted fabrics simulating terry cloth. 3,340,839, 9–12–67, Cl. 112—410.

Ketterer, Stanley J., and M. R. Laidig, to The Singer Co. Convertible work-feeding devices for sewing machines. 3,320,912, 5–23–67, Cl. 112—210.

Ketterer, Stanley J., and G. F. Keller, deceased (by M. A. Keller, executrix), to The Singer Co. Work feeding mechanism for sewing machines. 3,349,735, 10–31–67, Cl. 112—214.

Kettering, Dale O., N. L. Strickland, and L. J. Grosswiller, Jr., to Diebold, Inc. Bank drive-up window and seal drawer construction. 3,302,871, 2–7–67, Cl. 232—43.4.

Ketterle, Walter, H. Steuer, and R. Pataky, to Reimers Gatriebe Kommanditgesellschaft. Steel link chain. 3,353,421, 11–21–67. Cl. 74—253.

Kettner, Kay J., to The S. Obermayer Co. Furnace wall anchoring structures. 3,295,280, 1–3–67, Cl. 52—378.

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Keusemann, Hans H., and H. Walpersdorf, to Beteiligungs und Patentverwoltungsgesellschaft mit beschrankter Haftung. Wire-tying apparatus. 3,304,960, 2–21–67, Cl. 140—93.6.

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Du Rose, Arthur H., and Willson. 3,355,268.
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Keyes, Robert W., to International Business Machines Corp. Non-reciprocal light amplifier. 3,317,848, 5–2–67, Cl. 330—4.3.

Keymer, Mark W., to Malco Products, Inc. Rivet gun device. 3,328,985, 7–4–67, Cl. 72—391.

Keynton, Robert J., to United States of America, National Aeronautics and Space Administration. Technique for control of free-flight rocket vehicles. 3,310,258, 3–21–67, Cl. 244—3.14.

Keys, Archie F., and T. F. Ormsby. Grinder for hard cellular plastic or the like. 3,337,141, 8–22–67, Cl. 241—88.

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Keyser, Johann J. Two-for-one twisting spindle with rotatably journalled hollow shank. 3,299,623, 1–24–67, Cl. 57—58.84.

Keyser, Johann J. Spinning or twisting spindle. 3,302,899, 2–7–67, Cl. 242—46.4.

Keyser, Johann J. Spinning or twisting spindle with a dead spindle shank. 3,309,860, 3–21–67, Cl. 57—130.

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Kiefer, Jacob C., to Seeburg Corp. Voicing tab capture system. 3,334,534, 8–8–67, Cl. 84—343.
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Kimoto, Walter I., E. A. Swakon, and E. Field, to Standard Oil Co. Esters of 2-substituted ethylthiolcarbonic acid. 3,352,900, 11–14–67, Cl. 260—455.

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Kimura, Kazuo: *See*—
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Kimura, Naokazu, to Hitachi, Ltd. Counting type analogue-to-digital converters. 3,349,391, 10–24–67, Cl. 340—347.

Kimura, Naokazu, to Hitachi, Ltd. Analog to digital converter employing noise rejection signal modulator. 3,351,873, 11–7–67, Cl. 332—9.

Kimura, Naokazu, to Hitachi, Ltd. Digital-to-analogue convertors. 3,360,792, 12–26–67, Cl. 340—347.

Kimura, Shinzo, and H. Hosono, to Matsushita Electric Industrial Co., Ltd. Electric toaster. 3,350,997, 11–7–67, Cl. 99—329.

Kimura, Shiro, H. Ono, and K. Sano, to Fuji Shashin Film Kabushiki Kaisha. Color photographic silver halide emulsion. 3,337,344, 8–22–67, Cl. 96—100.

Kimura, Shiro, M. Yoshida, and M. Tsuda, to Fuji Shashin Film Kabushiki Kaisha. Photographic silver halide materials utilizing succinmonoamido benzoyl acetanilide color coupers. 3,341,331, 9–12–67, Cl. 96—55.

Kimura, Shuji, to Nippon Kogaku K.K. Camera handgrip internally provided with electrical cell. 3,301,627, 1–31–67, Cl. 352—95.

Kimura, Yoshio, Y. Kasamatsu, and N. Kagawa, to Kobe Steel Works, Ltd. High-efficiency semi-automatic continuous electric arc welding. 3,303,322, 2–7–67, Cl. 219—137.

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Kinard, William H., and C. C. Laney, Jr., to United States of America, National Aeronautics and Space Administration. Micrometeoroid velocity measuring device. 3,296,526, 1–3–67, Cl. 324—70.

Kinbara, Seturo, to Nihon Genshiryoku Kenkyu. System for converting binary numbers into decimal numbers. 3,296,610, 1–3–67, Cl. 340—347.

Kinberg, Benjamin. Movable figure card toy. 3,318,040, 5–9–67, Cl. 46—37.

Kincaid, Daniel H., to Colgate-Palmolive Co. Container filling method and apparatus. 3,315,713, 4–25–67, Cl. 141—1.

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Kind, Wilhelm, and K.-H. Schneider, to Robert Bosch G.m.b.H. Method of producing base assemblies for ignition distributors. 3,315,333, 4–25–67, Cl. 29—155.5.

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Kindersley, Charles R. D.; deceased by The Royal Trust Co., administrator, and J. F. Duffield, to Smith & Stone Ltd. Female skeleton contacts for lamp sockets. 3,333,234, 7–25–67, Cl. 339—199.

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Kindler, Helmut, and G. Weber, to Sachsenwerk Licht-und Kraft-Aktiengesellschaft. Switch. 3,298,237, 1–17–67, Cl. 74—97

Kindler, Hubert, and H. G. Trieschmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separation of mixtures which contain a non-volatile complex catalyst. 3,297,768, 1–10–67, Cl. 260—632.

Kindlesparker, Jacob H., to Market Electronics Co. Cushioning pad for wind instrument and method of making same. 3,295,403, 1–3–67, Cl. 84—385.

Kindlimann, Ernst, to Eidgenossisches Flugzeugwerk. Load maintaining unit for hydraulic fatigue loading machines. 3,311,027, 3–28–67, Cl. 91—414.

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King, Alan M., to Square Mfg. Co. Infrared oven for heating food in packages. 3,304,406, 2–14–67, Cl. 219—411.

King, Alan M., to Interstate United Corp. Beverage brewing apparatus. 3,354,811, 11–28–67, Cl. 99—282.

King, Burnham W., Jr., T. G. Byrer, and W. A. Hedden, to United States of America, Air Force. Al-Si-Mn-Li anode for high temperature galvanic cell. 3,301,711, 1–31–67, Cl. 136—120.

King, Burnham W., Jr., T. G. Byrer, and W. A. Hedden. Method of making a Al—Si—Mn—Li anode for high temperature galvanic cell. 3,305,357, 2–21–67, Cl. 75—135.

King, Burnham W., and W. A. Hedden, to Westinghouse Electric Corp. Thermally activated electric power supply. 3,357,859, 12–12–67, Cl. 136—6.

King, Cecil V., to American Gas & Chemicals, Inc. Leak detecting device. 3,317,283, 5–2–67, Cl. 23—253.

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King, Charles B., to United States of America, National Aeronautics and Space Administration. Method and apparatus for bonding a plastics sleeve onto a metallic body. 3,356,549, 12–5–67, Cl. 156—3.

King, Charles R., to Graflex, Inc. Roll film holders. 3,322,367, 5–30–67, Cl. 242—71.4.

King, Charles R., to Graflex, Inc. Film-winding and indicating control. 3,322,368, 5–30–67, Cl. 242—71.4.

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King, Donald L., to The Steelcraft Mfg. Co. Closure caps for composite doors. 3,333,385, 8–1–67, Cl. 52—624.

King, Douglas T., and M. L. Miller, to The Wilcolator Co. Self-clearing timer control circuits for cooking and the like. 3,297,252, 1–10–67, Cl. 236—46.

King, Edward C., and P. J. M. Pardoe-Matthews, to King Packaging Ltd. Vacuum molding machines. 3,348,265, 10–24–67, Cl. 18—19.

King, Edward J., Jr., to King Radio Corp., Inc. High frequency radio receiver. 3,327,222, 6–20–67, Cl. 325—462.

King, Emma W. De-boning knife. 3,333,339, 8–1–67, Cl. 30—299.

King, Francis N., to Grace & Hornbrook Mfg. Co. Ball slide assembly. 3,342,534, 9–19–67, Cl. 308—6.

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King, George F., and A. L. Wigzell, to Decca Ltd. Automatic chart position display apparatus. 3,350,715, 10–31–67, Cl. 346—1.

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King, James D. Puller device for removing brake drums or the like. 3,315,340, 4–25–67, Cl. 29—267.

King, James D., to Plastic Applicators, Inc. Circuit for reproduction of a plurality of similar low-level D.C. signals. 3,331,969, 7–18–67, Cl. 307—88.5.
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King, James F., Jr., to The Bahnson Co. Filter cleaning apparatus. 3,315,446, 4–25–67, Cl. 55—272.
King, James F., Jr. Magnetohydrodynamic propulsion apparatus. 3,322,374, 5–30–67, Cl. 244—62.
King, James F., Jr., and D. A. Sloan, to The Bahnson Co. Automatic bobbin donning apparatus. 3,321,896, 5–30–67, Cl. 57—53.
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King, Kenneth F., to E. I. du Pont de Nemours and Co. Process for chlorosulfonating solid polyethylene. 3,314,925, 4–18–67, Cl. 260—79.3.
King, Kenneth F., to E. I. du Pont de Nemours and Co. Curable chlorinated polyethylene containing carboxylic ester groups. 3,326,884, 6–20–67, Cl. 260—94.9.
King, Kenneth G., to Westinghouse Brake and Signal Co., Ltd. Control systems for electric motors. 3,331,003, 7–11–67, Cl. 318—231.
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King, Leonard H. Tear-open package. 3,323,707, 6–6–67, Cl. 229—66.
King, Leonard H. High intensity lamp with magnetic suction-cup supporting means. 3,325,639, 6–13–67, Cl. 240—52.15.
King, Leonard H. Pay sound system for closed circuit television in which the audio component is conveyed via carrier current transmission. 3,355,546, 11–28–67, Cl. 178—5.6.
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King, Ralph W., and B. O. Shorthouse, to The International Synthetic Rubber Co. Ltd. Recovery of isoprene from hydrocarbon fractions. 3,301,915, 1–31–67, Cl. 260—681.5.
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King, Walter F., III, to Licentia Patent-Verwaltungs-G.m.b.H. Fault sensing device for continuously moving web. 3,357,241, 12–12–67, Cl. 73—159.
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King, William L. Portable hot water washing apparatus. 3,341,081, 9–12–67, Cl. 222—146.
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Kingery, William D., and A. Waugh, to Lexington Laboratories, Inc. Process of casting refractory materials. 3,351,688, 11–7–67, Cl. 264—63.
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Kinley, John C. and M. M., and C. E. Anderson; said M. M. Kinley and said Anderson assors. to said J. C. Kinley. Tension jarring tool with tension assembly. 3,360,060, 12–26–67, Cl. 175—299.
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Kinn, James D., to National Canvas Products Corp. Collapsible table. 3,318,269, 5–9–67, Cl. 108—112.
Kinn, Marion, ½ to R. Kinn. Compact with illuminated means. 3,300,632, 1–24–67, Cl. 240—6.45.
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Kinnaman, Dwight E. Hairdresser's style notebook. 3,325,917, 6–20–67, Cl. 35—59.
Kinnamon, George C., to Borg-Warner Corp. Pressure loaded pump. 3,296,977, 1–10–67, Cl. 103—126.
Kinnan, Frank R. Cable laying machine. 3,307,363, 3–7–67, Cl. 61—72.6.
Kinnan, Frank R., to Henkels and McCoy, Inc. Power actuated cable feed and tensioning mechanism. 3,343,739, 9–26–67, Cl. 226—187.
Kinnard, Wolcott S. Filter attachment for photoelectric light metering apparatus. 3,360,656, 12–26–67, Cl. 250—226.
Kinnavy, James W., and E. D. Giggard, to Continental Can Co. Corrosion barrier and inhibitor coating and method. 3,313,634, 4–11–67, Cl. 106—14.
Kinnavy, James W., and H. P. Lankelma, Jr., to Continental Can Co., Inc. Friction closures. 3,338,456, 8–29–67, Cl. 220—42.
Kinnen, Edwin: *See*—
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Kinnerley, Anthony G., and A. J. Broadhurst, to British Aircraft Corp. (Operating) Ltd. Aircraft. 3,331,570, 7–18–67, Cl. 244—121.
Kinney, Alfred W., to American Can Co. Cup dispensing apparatus. 3,311,260, 3–28–67, Cl. 221—11.
Kinney, David W., to Union Insulating Co., Inc. Molded insulation electrical box. 3,358,866, 12–19–67, Cl. 220—3.9.
Kinney, George A., to E. I. du Pont de Nemours and Co. Process for forming non-woven filamentary structures from fiber-forming synthetic organic polymers. 3,338,992, 8–29–67, Cl. 264—24.
Kinney, George A., to E. I. du Pont de Nemours and Co. Sheets of randomly distributed continuous filaments. 3,341,394, 9–12–67, Cl. 161—72.
Kinney, James F.: *See*—
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Kinney, Raymond E. Flying wing. 3,309,045, 3–14–67, Cl. 244—153.
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Carr, Hugh B. 3,327,861.
Kinney, Selwyne P., and Carr. 3,348,832.
Kinney, Selwyne P., and H. B. Carr, to S. P. Kinney Engineers, Inc. Automatic stove selection system for blast furnaces. 3,348,832, 10–24–67, Cl. 266—14.
Kinney, Theodore S. Electric heater. 3,302,003, 1–31–67, Cl. 219—550.
Kinney, Thurlow R. Reversible jet pump. 3,338,169, 8–29–67, Cl. 103—94.
Kinoshita, Shosaku, and T. Sunada, to Gisen Sato. Method for producing a perfume by exposure to ionizing radiation. 3,326,786, 6–20–67, Cl. 204—158.
Kinoshita, Shukuo, K. Nakayama, Z. Sato, and H. Tanaka, to Kyowa Hakko Kogyo Co., Ltd. Process for the production of uridylic acid by fermentation. 3,296,088, 1–3–67, Cl. 195—23.
Kinoshita, Shukuo, K. Mizuhara, and T. Suzuki, to Kyowa Hakko Kogyo Co., Ltd. Process of producing D-ribose-5-phosphate and D-ribose through fermentation. 3,303,101, 2–7–67, Cl. 195—31.
Kinoshita, Shukuo, K. Nakayama, T. Nara, Z. Sato, and H. Tanaka, to Kyowa Hakko Kogyo Co., Ltd. Process for producing tri- and diphosphates of adenosine and guanosine by fermentation. 3,313,710, 4–11–67, Cl. 195—28.
Kinoshita, Toshio, H. Kondo, and T. Takahashi, to Hitachi, Ltd. Amplifying means for use with transmission systems with feedback means providing error signal for amplifier. 3,308,383. 3–7–67, Cl 328—1.
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Hatanaka, Yoshihiro, and Kinoshita. 3,351,172.
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Kinsella, Frank V.: *See*—
Kircher, Charles E., Jones, and Kinsella. 3,330,877.
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Kinser, Robert C., to Kinco Corp. Right or left hinged door and door frame assembly. 3,298,135, 1–17–67, Cl. 49—380.
Kinser, Vernon. Swingable horseshoe stake with shock absorbing means. 3,353,828, 11–21–67, Cl. 273—104.
Kinsey, Ernest V. Kite control assembly. 3,355,129, 11–28–67, Cl. 244—155.
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Kinsley, Charles W., to Glass Machinery Inc. Apparatus for forming hollow glassware. 3,329,492, 7–4–67, Cl. 65—223.
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Kintish, Irving L., to United States of America, Army. Article attaching means. 3,295,810, 1–3–67, Cl. 248—206.

Kintish, Irving L., and T. M. Roach, to United States of America, Army. Ice or frozen earth anchor. 3,304,671, 2–21–67, Cl. 52—155.

Kintner, Mildred M. Fixture for window hangings. 3,338,291, 8–29–67, Cl. 160—348.

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Kintner, Paul M., to Cutter-Hammer, Inc. Single bit reversible shift register responsive to sequenced (transfer and clear) pair of input pulses. 3,305,738, 2–21–67, Cl. 307—88.5.

Kintner, Paul M., and P. J. Tolan, to Cutler-Hammer, Inc. Weighing scale utilizing flexure plate pivots and horizontal damping. 3,354,974, 11–28–67, Cl. 177—229.

Kinyon, William B., and W. M. Wilson, to Helme Products, Inc. Method of preparing colloidal solution of iodine. 3,334,051, 8–1–67, Cl. 252—314.

Kinzelman, Gerald W., to United States of America, Army. Magnetic core logic circuit. 3,339,084, 8–29–67, Cl. 307—88.

Kinzie, James E., J. W. Pross, Jr., R. B. Steves, and A. T. Trostrud, to General Precision, Inc. Input-output system for a digital computer. 3,328,566, 6–27–67, Cl. 235—165.

Kinzie, James E., J. W. Pross, Jr., R. B. Steves, and A. T. Trostrud, to General Precision, Inc. Computer performing serial arithmetic operations having a parallel-type static memory. 3,331,954, 7–18–67, Cl. 235—156.

Kinzie, James E., J. W. Pross, Jr., R. B. Steves, and A. T. Trostrud, to General Precision, Inc. Instruction and operand processing. 3,340,513, 9–5–67, Cl. 340—172.5.

Kinzler, Raymond C., to Koppers Co., Inc. Apparatus for cleaning a basic oxygen furnace converter. 3,335,445, 8–15–67, Cl. 15—93.

Kiouzes-Pezas, Dimitrios. Process for producing spheroidal alkaline earth metal carbonates. 3,304,154, 2–14–67, Cl. 23—66.

Kip, Inc.: *See*—
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Kremp, Rudolf, and Kiper. 3,314,347.

Kiper, Gerd, to Agfa Aktiengesellschaft. Exposure controls for cameras. 3,302,544, 2–7–67, Cl. 95—60.

Kiper, Gerd, to Agfa Aktiengesellschaft. Camera shutter which also act as diaphragms. 3,335,649, 8–15–67, Cl. 95—Cl. 95—63.

Kiper, Gerd, to Agfa Aktiengesellschaft. Camera shutters which also act as diaphragms. 3,335,649, 8–15–67, Cl. 95—10.

Kiper, Gerd, to Agfa-Gevaert Aktiengesellschaft. Photographic camera. 3,356,004, 12–5–67, Cl. 95—63.

Kiper, Gerd, and G. Fauth, to Agfa Aktiengesellschaft. Between-the-lens shutters. 3,334,563, 8–8–67, Cl. 95—60.

Kipping, Vernon L. Device to mount prints on a base. 3,352,020, 11–14–67, Cl. 33—174.

Kippur, Perry R., to Olin Mathieson Chemical Corp. Preparation of solid organoboron fuels. 3,316,307, 4–25–67, Cl. 260—606.5.

Kiraly, Ernest. Vacuum cleaner for shoes. 3,341,883, 9–19–67, Cl. 15—310.

Kiraly, Joseph L. Table-lectern. 3,347,184, 10–17–67, Cl. 108—17.

Kiraly, Philip Z., to Van Dorn Co. Injection molding apparatus for plastic materials. 3,319,298, 5–16–67, Cl. 18—30.

Kiraly, Philip Z., to Van Dorn Co. Injection molding nozzle. 3,319,299, 5–16–67, Cl. 18—30.

Kiras, Edmund J., Jr. Hydraulic safety system. 3,343,287, 9–26–67, Cl. 37—129.

Kirby, Charles A., to Allied Building Components, Inc. Adjustable swinging door assembly. 3,313,064, 4–11–67, Cl. 49—388.

Kirby, David C.: *See*—
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Kirby, Edward, to United-Carr Inc. Top insertable, releasable and removable contact. 3,352,990, 11–14–67, Cl. 200—166.

Kirby, Gary N.: *See*—
Badia, Frank A., and Kirby. 3,347,666.

Kirby, John E.: *See*—
Brady, Robert M., Hawkey, and Kirby. 3,342,224.

Kirby, John H., II. Jet pipe cutter. 3,331,321, 7–18–67, Cl. 102—20.

Kirby, John H., II. Free point indicator. 3,352,360, 11–14–67, Cl. 166—55.1.

Kirby, Kenneth W., to Penick & Ford, Ltd., Inc. Quaternary ammonium starch ethers and process of preparation. 3,336,292, 8–15–67, Cl. 260—233.3.

Kirby, Peter: *See*—
Hackmann, Johannes Th., and Kirby. 3,320,123.

Kirby, Peter L., to Welwyn Electric Ltd. Electrical resistor with a parallel high voltage protective gap. 3,305,694, 2–21–67, Cl. 315—59.

Kirby, Robert. Adjustable pipe rack. 3,360,256, 12–26–67, Cl. 269—296.

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Lynn, Ralph D., and Kirby. 3,318,145.

Kirby, Robert A., to Esso Production Research Co. Interval velocity well logging system. 3,333,655, 8–1–67, Cl. 181—.5.

Kirby, Robert A., to Esso Production Research Co. Voltage regulator. 3,350,629, 10–31–67, Cl. 323—18.

Kirby, Robert A., and L. K. Shallenberger, to Esso Production Research Co. System for measuring changes in fluid pressure. 3,350,932, 11–7–67, Cl. 73—152.

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Kircher, Charles E., R. J. Jones, and F. V. Kinsella, to Detrex Chemical Industries, Inc. Process for the chlorination of unsaturated hydrocarbons and unsaturated chlorohydrocarbons. 3,330,877, 7–11–67, Cl. 260—660.

Kircher, Morton S., to Hooker Chemical Corp. Brine electrolysis. 3,312,609, 4–4–67, Cl. 204—98.

Kircher, Morton S., to Hooker Chemical Corp. Bipolar electrolytic cell for the production of gases. 3,324,023, 6–6–67, Cl. 204—256.

Kirchhoefer, Martin J., to Pulpamac, Inc. Method and apparatus for continuous gravity feed of fluent materials. 3,315,824, 4–25–67, Cl. 214—17.

Kirchner, Clarence A. Flexible rotary hoe control and carrier. 3,318,389, 5–9–67, Cl. 172—445.

Kirchner, Frederick K., to Sterling Drug Inc. 3,8-di-substituted-3,8-diazabicyclo[3.2.1]octanes. 3,328,396, 6–27–67, Cl. 260—243.

Kirchner, Frederick K., to Sterling Drug Inc. 1-phenyl-4-[2-(2-pyridyl)-ethyl] piperazines. 3,332,949, 7–25–67, Cl. 260—268.

Kirchner, Henry P., to Cornell Aeronautical Laboratory, Inc. Composition of matter containing plutonium dioxide and plutonium phosphate. 3,340,201, 9–5–67, Cl. 252—301.1.

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Kirchner, Ronald P.: *See*—
Woods, Randell C., Engle, Conley, Kirchner, and Rex. 3,305,908.

Kirchof, Fred. Social correspondence card construction. 3,352,481, 11–14–67, Cl. 229—92.1.

Kirichinsky, Igor I.: *See*—
Kotov, Vladimir A., Shijapin, and Kirichinsky. 3,359,769.

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Branco, Flavio S. C., Johnson, and Kirilouckas. 3,335,929.

Kirilouckas, Albert C., to Winston Research Corp. Knob assembly for tape recorder. 3,313,561, 4–11–67, Cl. 287—52.07.

Kirin Beer Kabushiki Kaisha: *See*—
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Kiriyama, Shigeru, N. Mabuchi, M. Sakai, M. Yoshida, S. Okamoto, and H. Ikeda. Curing epoxy resins with chelated O-methylol phenolic compounds or resins. 3,298,999, 1–17–67, Cl. 260—47.

Kirk & Blum Mfg. Co., The: *See*—
Carsey, Eugene A. 3,314,098.
Carsey, Eugene A. 3,343,197.
Carsey, Eugene A. 3,353,340.
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Kirk, David N., V. Petrow, M. Stansfield, and D. M. Williamson, to The British Drug Houses Ltd. Progestational compositions which contain 17aacyloxy-16-methylene-4-pregnene-3,20-dione. 3,296,075, 1–3–67, Cl. 167—74.

Kirk, David N., V. Petrow, M. Stansfield, and D. M. Williamson, to The British Drug Houses Ltd. 16-methylene-progesterones and intermediates in the production thereof. 3,296,256, 1–3–67, Cl. 260—239.55.

Kirk, David N., V. Petrow, and D. M. Williamson, to The British Drug Houses Ltd. Process for the preparation of 17a-acyloxy-6-methyl-16-methylene-4,6-pregnadiene-3,20-diones and intermediates obtained therefrom. 3,332,940, 7–25–67, Cl. 260—239.55.

Kirk, David N., V. Petrow, and D. M. Williamson, to The British Drug Houses Ltd. 17a-acyloxy-6-methylpregna-4,6-diene-3,20-diones and method for preparation of these and related 6-methyl-3-oxo-$\Delta^{4,6}$-steroids. 3,356,573, 12–5–67, Cl. 167—74.

Kirk, Donald G.: *See*—
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Kirk, Douglas, to The Quaker Oats Co. Easy opening bag. 3,341,108, 9–12–67, Cl. 229—66.

Kirk, Harry V., to Cheshire Inc. Machine for applying intelligence to a moving article. 3,341,390, 9–12–67, Cl. 156—511.

Kirk, Joseph R., to Hancock Industries, Inc. Seat slide assembly for automotive vehicles. 3,350,046, 10–31–67, Cl. 248—430.

Kirk, Merritt C., Jr., A. T. Olenzak, H. E. Reif, and W. D. Thomas, to Sun Oil Co. Production of hydrogenated polymer gasoline. 3,309,421, 3–14–67, Cl. 260—683.15.

Kirk, Norbert A. Inertially actuated signal devices. 3,296,998, 1–10–67, Cl. 116—28.

Kirk Optical Lens Co., Inc.: *See*—
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Kirk, Ralph D. Cutting blade assembly for rotary lawn mowers and the like. 3,320,732, 5–23–67, Cl. 56—295.

Kirk, Ralph D. Rotary lawn mower blade mounting structure. 3,320,733, 5–23–67, Cl. 56—295.

Kirk, Raymond H. Safety cut-off valve. 3,331,389, 7–18–67, Cl. 137—516.11.

Kirk, Robert E.: *See*—
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Kirk, Robert E., and J. R. Lubert, to General Motors Corp. Connector means. 3,310,772, 3–21–67, Cl. 339—217.

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Campbell, Robert W., Sawyer, Ruff, Kirk, Ramey, and Worrell. 3,320,565.
Worrell, William D., and Kirk. 3,332,006.

Kirk, Thomas E., and L. J. Raver, to General Motors Corp. Semiconductor generator voltage regulator system. 3,343,059, 9–19–67, Cl. 320—39.

Kirk, Walter B., to Westinghouse Air Brake Co. Empty and load brake apparatus. 3,338,640, 8–29–67, Cl. 303—23.

Kirk, Walter B., and F. Temple, to Westinghouse Air Brake Co. Empty and load brake apparatus. 3,338,638, 8–29–67, Cl. 303—22.

Kirk, William A., to Imperial Citrus By-Products, Inc. Citrus seed separator. 3,330,410, 7–11–67, Cl. 209—114.

Kirkaldy, David, to British Nylon Spinners Ltd. Synthetic elastomeric filaments from (A) polyester diols, (B) aliphatic or cycloaliphatic diols and (C) aliphatic or cycloaliphatic diisocyanates. 3,357,954, 12–12–67, Cl. 260—75.

Kirkbride, William W. Power elevator system. 3,351,220, 11–7–67, Cl. 214—75.

Kirkconnell, Thomas W., and R. N. S. Chiang, ⅓ to Vincennes University. Cheat-proof programmed-learning device with motorized lesson sheet controlled by student. 3,308,559, 3–14–67, Cl. 35—9.

Kirkconnell, Thomas W., and C. W. Schuler, ⅓ to Vincennes University. Automatic grading machine. 3,332,157, 7–25–67, Cl. 35—48.

Kirkendall, William D., to Weston Instruments, Inc. Adjustable wire-wound component. 3,327,275, 6–20–67, Cl. 338—195.

Kirkendall, William D., to Weston Instruments, Inc. Potentiometers. 3,358,258, 12–12–67, Cl. 338—183.

Kirkendall, William D., to Weston Instruments, Inc. Potentiometers. 3,358,259, 12–12–67, Cl. 338—183.

Kirkham, Lindsay J. Electrocardiographic switching system. 3,343,528, 9–26–67, Cl. 128—2.06.

Kirkham, Thomas A.: *See*—
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Kirkhof, Russel H. 3,330,423.
Kirkhof, Russel H., R. T. Hummel, Sr., R. J. Hummel, Jr., and O'Brien. 3,321,888.
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O'Brien, Robert E. 3,321,807.
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O'Brien, Robert E., and Markowski. 3,359,600.
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Kirkhof, Russel H., to Kirkhof Mfg. Corp. Destacker having reciprocating tray discharge means. 3,315,841, 4–25–67, Cl. 221—223.

Kirkhof, Russel H., to Kirkhof Mfg. Corp. Stacking device. 3,330,423, 7–11–67, Cl. 214—6.

Kirkhof, Russel H., R. T. Hummel, Sr., R. J. Hummel, Jr., and R. E. O'Brien, to Kirkhof Mfg. Corp. Plastic bag forming machine 3,321,888, 5–30–67, Cl. 53—186.

Kirkland, Herman R.: *See*—
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Kirkland, Kenneth D. Toy rubber band projecting gun. 3,297,012, 1–10–67, Cl. 124—18.

Kirkland, William A. Shoe fit indicating device. 3,359,640, 12–26–67, Cl. 33—3.

Kirkland, Wyatt S. Sand blast nozzle. 3,344,558, 10–3–67, Cl. 51—11.

Kirklen, George W. Writing instrument provided with display feature. 3,315,395, 4–25–67, Cl. 40—334.

Kirklen, George W. Writing instrument provided with display feature. 3,343,293, 9–26–67, Cl. 40—334.

Kirkpatrick, Alven D. Printing blanket edging and anchoring means. 3,296,673, 1–10–67, Cl. 24—265.

Kirkpatrick, Edwin C., and C. W. Neely, deceased (by D. F. Neely, executrix), to Ralston Purina Co. Fishbone separator. 3,356,119, 12–5–67, Cl. 146—174.

Kirkpatrick, George B. Angularly disposed, water-cooled skid rails. 3,337,199, 8–22–67, Cl. 266—5.

Kirkpatrick, Glen A.; 12½% each to W. E. Thomson and J. R. Schovec. Seat belt. 3,323,832, 6–6–67, Cl. 297—388.

Kirkpatrick, John E. Combination food cooker and smoker. 3,333,526, 8–1–67, Cl. 99—260.

Kirkpatrick, Leland W.: *See*—
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Kirkpatrick, Max B., to Alkirk, Inc. Earth boring machine. 3,325,218, 6–13–67, Cl. 299—31.

Kirkpatrick, Max B., to Alkirk, Inc. Rotary tunneling machine having resiliently mounted vibrated kerf cutter. 3,343,878, 9–26–67, Cl. 299—31.

Kirkpatrick, Milton E., to TRW Inc. Method of bonding porous tungsten. 3,353,259, 11–21–67, Cl. 29—487.

Kirpatrick, Richard A., to National Co., Inc. Amplifier bias control circuit. 3,328,715, 6–27–67, Cl. 330—135.

Kirkpatrick, Thomas I., to The Regents of the University of California. Magnetic field stabilization. 3,308,349, 3–7–67, Cl. 317—123.

Kirkpatrick, Wylie C., J. W. Harrison, and R. D. Lowry, to W. R. Grace & Co. Fastening process. 3,320,106, 5–16–67, Cl. 156—86.

Kirkstall Forge Engineering Ltd.: *See*—
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Kirlin, Albert D., to Industrial Mfg. Co. Portable hydraulic lift truck. 3,338,586, 8–29–67, Cl. 280—5.3.

Kirmser, Philip G.: *See*—
Dutcher, Dennis L., and Kirmser. 3,357,196.

Kirovsky maschinostroitelny i metallurgichesky: *See*—
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Kirsch Co.: *See*—
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Ford, James A. 3,331,428.
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Kirsch, Karl, and S. Uhl, to Keller & Knappich G.m.b.H. Slide runners for a device for laying barbed wire coils. 3,339,937, 9–5–67, Cl. 280—12.

Kirsch, Kurt, to Lonza Ltd. Preparation of nitriles. 3,300,526, 1–24–67, Cl. 260—465.2.

Kirschenbaum, Bernard: *See*—
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Kirschenbaum, Bernard, to Bell Telephone Laboratories, Inc. Electrode and electrode fabrication method for electroerosion machine. 3,334,212, 8–1–67, Cl. 219—69.

Kirschenbaum, Samuel. Dust mop having replaceable soil collecting element. 3,329,988, 7–11–67, Cl. 15—231.

Kirschnek, Helmut, G. Von Finck, and M. Quaedvlieg, to Farbenfabriken Bayer Aktiengesellschaft. Polyalkylene glycol ethers containing terminal urea groups. 3,324,176, 6–6–67, Cl. 260—553.

Kirschner, Bernhard R.: *See*—
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Kirschner, Frederick G., to Rohm & Haas Co. Process for curing polyurethanes. 3,297,649, 1–10–67, Cl. 260—75.

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Kirshbaum, Bernard A. Set of finger rings with interfitting portions. 3,307,374, 3–7–67, Cl. 63—1.

Kirshenbaum, Isidor, R. M. Hill, and J. H. Bartlett, to Esso Research and Engineering Co. Production of cyclic unsaturated alcohols and borate esters. 3,301,887, 1–31–67, Cl. 260—462.

Kirshenblat, Jack. Mobile apparatus for collecting and melting snow. 3,333,354, 8–1–67, Cl. 37—12.

Kirstahler, Alfred: *See*—
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Klass, Donald L., to Union Oil Co. of California. Sulfato betaines and a method for their preparation. 3,320,266, 5-16-67, Cl. 260—294.8.

Klassen, Fritz E., and D. G. Miller, to California Computer Products, Inc. High speed pen actuating mechanism. 3,340,541, 9-5-67, Cl. 346—140.

Klassen, Harold C.: *See*—
McWhorter, Wayne F., Kuhn, and Klassen. 3,352,826.

Klasson, George A., J. E. McQuillen, and J. W. Mills, to Air Products and Chemicals, Inc. Container and dispensing apparatus. 3,308,990, 3-14-67, Cl. 222—52.

Klasson, George A., and J. W. Mills, to Air Products and Chemicals, Inc. Dispensing apparatus. 3,315,844, 4-25-67, Cl. 222—52.

Klatt, Henry G., Jr. Pulley removal tool having thin, wide faces adapted to be forced apart by screw operated wedge element. 3,309,764, 3-21-67, Cl. 29—239.

Klaubert, Earl C., to Thlokol Chemical Corp. Flamethrower. 3,335,780, 8-15-67, Cl. 158—28.

Klaue, Hermann. Spaced building plates with embedded wire tires connected by rod means. 3,321,884, 5-30-67, Cl. 52—565.

Klaue, Hermann. Disk brake for automotive vehicle. 3,342,290, 9-19-67, Cl. 188—72.

Klauer, Leslie H., and W. R. McLure, to The Budd Co. Brake drum. 3,323,620, 6-6-67, Cl. 188—218.

Klauke, Erich: *See*—
Kuhle, Engelbert, and Klauke. 3,299,148.
Kühle, Engelbert, and Klauke. 3,344,153.
Kuhle, Engelbert, and Klauke. 3,360,542.

Klauke, Erich, E. Kuhle, F. Grewe, H. Kaspers, and R. Wegler, to Farbenfabriken Bayer Aktiengesellschaft. Method of controlling fungi with N-thiomonofluoro-dichloro-methyl imides. 3,341,403, 9-12-67, Cl. 167—30.

Klauke, Erich, and E. Kuhle, to Farbenfabriken Bayer Aktiengesellschaft. N-trifluoromethylamines and process for their production. 3,355,454, 11-28-67, Cl. 260—249.5.

Klaus, Arthur, to Signode Corp. Pneumatic piston return system for impact tools. 3,329,068, 7-4-67, Cl. 91—402.

Klausner, Alvin S. Washing machine or the like with adjustable programming controls. 3,347,066, 10-17-67, Cl. 68—12.

Klausner, Edward S. Composite structural systems. 3,307,304, 3-7-67, Cl. 52—99.

Klaverkamp, Bernard J.: *See*—
Kent, Francis J., and Klaverkamp. 3,314,267.

Klaviter, Robert A., and R. D. Williams, to International Harvester Co. Hydraulic self leveling device for a front mounted bucket type material loader. 3,297,183, 1-10-67, Cl. 214—140.

Klavsons, Uldis: *See*—
Mutschler, Edward C., and Klavsons. 3,329,964.

Klebanoff, Gerald, to J. Sklar Mfg. Co. Surgical instrument for bile duct explorations. 3,336,927, 8-22-67, Cl. 128—305.

Klebanov, Girsh J., to Vsesouzny Nauchno-Issledovatelsky Institute Stroiteinogo i Dorozhnogo Mashinostroenia. Double-acting steam air hammer in particular for pile immersion. 3,332,503, 7-25-67, Cl. 173—134.

Klebba, Arthur A., to United Aircraft Corp. Laser light gate with piezoelectric crystal. 3,299,368, 1-17-67, Cl. 331—94.5.

Klebe, Johann F.: *See*—
Boldebuck, Edith M., and Klebe. 3,303,157.

Klebe, Johann F., to General Electric Co. Organosilicon compositions and methods for preparing the same. 3,337,510, 8-22-67, Cl. 260—77.5.

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Klebe, Johann F., and J. G. Murray, to General Electric Co. Organosiliconcarbodiimide polymers and process for their preparation. 3,352,799, 11-14-67, Cl. 260—2.

Kleboe, John E.: *See*—
Funke, Charles B., Kleboe, and Runyan. 3,300,035.
Grant, John W., and Kleboe. 3,337,686.

Kleboe, John E., and M. E. Runyan, to R. R. Donnelley & Sons Co. Linecasting control system. 3,300,034, 1-24-67, Cl. 199—11.

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Kress, Ralph H., Guhl, and Klecker. 3,323,610.

Klee, David J., and R. L. Berreth, to Air Products and Chemicals, Inc. Parallel flow cryogenic freezer. 3,345,828, 10-10-67, Cl. 62—63.

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Kleeb, Rudolf. Arrangement for the production of granules from plastic material. 3,324,510, 6-13-67, Cl. 18—12.

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Kleefisch, Peter A., to Senkingwerk. Washing machines. 3,336,768, 8-22-67, Cl. 68—58.

Kleehammer, Raymond A. Car clothes rack. 3,355,031, 11-28-67, Cl. 211—123.

Kleemann, Alois, to Geigy Chemical Corp. Substituted amino-1,3,5-triazines. 3,310,557, 3-21-67, Cl. 260—249.6.

Kleen-Stik Products Inc.: *See*—
Kucheck, Leo. 3,329,550.

Kleer-Vu Industries, Inc.: *See*—
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Klees, Gerard T.: *See*—
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Kleesattel, Claus. Resonant sensing devices. 3,302,454, 2-7-67, Cl. 73—67.1.

Kleesattel, Claus. Resonant sensing devices. 3,308,476, 3-7-67, Cl. 73—67.1.

Kleesattel, Claus, A. Kuris, and L. Balamuth, to Cavitron Ultrasonics, Inc. Devices for sensing and indicating variations in frequency and amplitude of acoustically vibrated work members. 3,304,479, 2-14-67, Cl. 318—178.

Klehm, William G., Jr., to Burroughs Corp. Reversible electronic counter. 3,300,725, 1-24-67, Cl. 328—44.

Klehm, William G., Jr., to Burroughs Corp. Circuit assembly. 3,341,742, 9-12-67, Cl. 317—101.

Kleiman, Floyd R. Car top camper. 3,351,078, 11-7-67, Cl. 135—1.

Kleiman, Gerald. Coconut shelling method. 3,340,918, 9-12-67, Cl. 146—242.

Kleiman, Joseph P., and M. Dubeck, to Ethyl Corp. Cyclopentadienyl nickel azobenzene compounds. 3,300,472, 1-24-67, Cl. 260—149.

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Klein, Albert J., to American Can Co. Method of manufacturing a container by casting and working. 3,357,095, 12-12-67, Cl. 29—528.

Klein, Albert J., to American Can Co. Container end wall construction. 3,360,158, 12-26-67, Cl. 220—66.

Klein, Alexander, to Chemically Prestressed Concrete Corp. Expansive cements and components thereof. 3,303,037, 2-7-67, Cl. 106—89.

Klein, Anne. Foundation garments. 3,331,372, 7-18-67, Cl. 128—535.

Klein, Artur. Compensation of out-of-balance of rotating masses. 3,339,430, 9-5-67, Cl. 74—573.

Klein, Carl R. Carrier vehicle. 3,356,239, 12-5-67, Cl. 214—390.

Klein, Charles H., J. K. Haley, and A. C. Sides, to Novelart Mfg. Co. Apparatus for making printed corrugated paper board. 3,306,805, 2-28-67, Cl. 156—470.

Klein, Charles O.: *See*—
Chan, William, De Vine, and Klein. 3,352,061.

Klein, Dietrich J., to Stromberg-Carlson Corp. Station-to-station telephone set for extreme shock conditions utilizing an automatic station selector switch return mechanism. 3,306,986, 2-28-67, Cl. 179—100.

Klein, Edmond. Blank for constructing a box of cardboard or like material and box constructed from said blank. 3,302,850, 2-7-67, Cl. 229—31.

Klein, Edwin C.: *See*—
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Klein, Eric, to Foster Wheeler Corp. Method of supporting horizontal heater tubes fired from both sides. 3,302,621, 2-7-67, Cl. 122—510.

Klein, Erich E., and R. J. Schwarz, to Erell Mfg. Co. Convention badge holder. 3,355,826, 12-5-67, Cl. 40—1.5.

Klein, Ernst, to Schloemann Aktiengesellschaft. Shears with a stationary blade and a movable blade. 3,308,702, 3-14-67, Cl. 83—558.

Klein, Frank. Dental burnishing tool. 3,318,002, 5-9-67, Cl. 32—59.

Klein, Frank F., Jr. Bearing construction for bicycles and the like. 3,306,684, 2-28-67, Cl. 308—187.

Klein, George I.: *See*—
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Klein, Georges, to Compagnie Generale d'Electricite. Electric current generator of the magnetohydrodynamic type. 3,320,443, 5-16-67, Cl. 310—11.

Klein, Georges, to Compagnie Generale d'Electricite. Magnetohydrodynamic Hall effect generator. 3,360,666, 12-26-67, Cl. 310—11.

Klein, Georges, and A. Dubois, to Compagnie Generale d'Electricite. Continuous electrodes for magnetohydrodynamic generators. 3,355,604, 11-28-67, Cl. 310—11.

Klein, Gerald B., and K. E. Harper, to said Klein and said Harper, jointly. Gated can lid. 3,334,775, 8-8-67, Cl. 220—48.

Klein, Hans-Christof, to Alfred Teves Maschinen- und Armaturenfabrik K.G. Ignition device. 3,322,989, 5-30-67, Cl. 313—54.

Klein, Hans-Christof, to Alfred Teves Maschinen- und Armaturenfabrik KG. Hydropneumatic vehicle suspension. 3,323,810, 6-6-67, Cl. 280—6.

Klein, Harvey G.: *See*—
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Klein, Harvey G., and H. C. Gillham, to American Cyanamid Co. Flame retardant compositions consisting essentially of a thermoplastic material and a phosphinic acid. 3,322,716, 5-30-67, Cl. 260—45.7.

Klein, Harvey S., to Shell Oil Co. Butene production. 3,354,236, 11-21-67, Cl. 260—683.15.

Klein, Harvey S., to Shell Oil Co. Thioether production. 3,357,995, 12-12-67, Cl. 260—327.

Klein, Harvey S., and F. F. Rust, to Shell Oil Co. Production of ε-halonitriles by the 1,4-addition of an α-halonitrile to a conjugated diene. 3,299,118, 1-17-67, Cl. 260—465.7.

Klein, Harvey S., and F. F. Rust, to Shell Oil Co. Halide addition process for producing halogenated carbonylic compound. 3,329,707, 7-4-67, Cl. 260—486.

Klein, Heinrich, and R. Pieper, to Siemens-Schuckertwerke Aktiengesellschaft. Device for increasing the total amount of separation of a vortex separator. 3,358,844, 12-19-67, Cl. 210—512.

Klein, Heinz G., and E. Zirnglebl, to Farbenfabriken Bayer Aktiengesellschaft. Process of chemical metal plating and baths therefor. 3,295,999, 1-3-67, Cl. 106—1.

Klein, Heinz-Gunter: *See*—
Zirnglebl, Eberhard, and Klein. 3,340,073.

Klein, Herschel A., to Combustion Engineering Inc. Ion exchange method and apparatus. 3,312,617, 4-4-67, Cl. 210—35.

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Klein, Johann, to Franz Baumgartner, Fabrik Elektrischer Apparate. Supervisory control system using a ferrite transformer and a transistor. 3,355,601, 11-28-67, Cl. 307-88.5.

Klein, Keith W., to General Electric Co. Panelboard with contact members having orthogonal engageable surfaces. 3,309,581, 3-14-67, Cl. 317—119.

Klein, Konrod, and H. Muller, to Zinser Textilmaschinen G.m.b.H. Apparatus for producing an upper winding for ring spinning and twisting machines. 3,343,754, 9-26-67, Cl. 242—26.1.

Klein, Lee F., to General Motors Corp. Desiccant and strainer assembly. 3,308,957, 3-14-67, Cl. 210—266.

Klein, Louis. Hold-down clamp assembly. 3,298,157, 1-17-67, Cl. 53—93.

Klein, Marvin E. Anti-stuttering device and method. 3,349,179, 10-24-67, Cl. 179—1.

Klein, Milton H.: *See*—
Abernethy, Charles W., and Klein. 3,310,170.
Zandon, Victor A., Klein, and Stewart. 3,333,920.
Zandon, Victor A., Mitchell, Abernethy, and Klein. 3,343,674.

Klein, Nicholas, to Technion Research and Development Foundation, Ltd. Temperature detector. 3,298,229, 1-17-67, Cl. 73—204.

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Klein, Norman E., to Deering Milliken Research Corp. Method and apparatus to equalize tension in two or more strands. 3,359,716, 12-26-67, Cl. 57—106.

Klein, Norman E., and E. D. Bolinger, to Deering Milliken Research Corp. Balanced elasticized multifilament yarn. 3,325,987, 6-20-67, Cl. 57—140.

Klein, Norman E., and E. D. Bolinger, to Deering Milliken Research Corp. Balanced elasticized multifilament yarn. 3,325,988, 6-20-67, Cl. 57—140.

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Klein, Robert C., to Kollsman Instrument Corp. Apparatus for selectively superimposing projected images. 3,338,131, 8-29-67, Cl. 88—24.

Klein, Robert E., and J. Gammon, to International Telephone and Telegraph Corp. Cordwood module with heat sink fence. 3,348,101, 10-17-67, Cl. 317—100.

Klein, Schanzlin and Becker Aktiengesellschaft: *See*—
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Klein, Seymour, to Radio Corp. of America. Optical scanning system for character reader. 3,303,330, 2-7-67, Cl. 235—61.11.

Klein, Siegfried: *See*—
Debiesse, Jean, and Klein. 3,319,089.

Klein, Stefan G., to Identymatic Trust. Method for automatically preparing recording and delivering identification tickets. 3,318,428, 5-9-67, Cl. 194—2.

Klein, Walter: *See*—
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Klein, Walter, to Beckman Instruments, Inc. Data processing system having programmable, multiple buffers and signalling and data selection capabilities. 3,297,994, 1-10-67, Cl. 340—172.5.

Klein, Walter, to Beckman Instruments, Inc. List control. 3,297,998, 1-10-67, Cl. 340—172.5.

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Kleiner, Juan E., and S. Bartha. Pneumatic process for conveying bulk material and a device for its application. 3,306,672, 2-28-67, Cl. 302—17.

Kleinerman, Ben, to J. G. Bechhofer. Alarm clock. 3,320,739, 5-23-67, Cl. 58—38.

Kleinerman, Benjamin B., and A. S. Valente. Heart activity detector and display device. 3,338,234, 8-29-67, Cl. 128—2.06.

Kleinewefers, Joh., Sohne Maschinenfabrik: *See*—
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Duis, Herward, and Lopata. 3,343,379.
Schiffer, Gunter. 3,338,493.
Schiffer, Gunter. 3,343,187.
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Kleine-Weischede, Karl. Chain welding machine. 3,350,533, 10-31-67, Cl. 219—51.

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Kleinknecht, Hans P., to International Telephone and Telegraph Corp. Tunnel-effect semiconductor system with capacitative gate across edge of PN-junction. 3,309,586, 3-14-67, Cl. 317—235.

Kleinlein, Werner: *See*—
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Kleinman, Helen R. Safety rail for examination tables. 3,329,423, 7-4-67, Cl. 269—324.

Kleinman, Jacob L. Assembled shearing section having a retractable shaving unit. 3,339,278, 9-5-67, Cl. 30—43.

Kleinman, Paul: *See*—
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Kleinpeter, John H., and G. Jansen, Jr., to United States of America, Atomic Energy Commission. Electrolytic deposition of actinide oxides. 3,314,865, 4-18-67, Cl. 204—1.5.

Kleinschmidt, Edward E., W. F. Bradbury, and K. Taubmann, to SCM Corp. Telegraphic progressive printing system. 3,324,240, 6-6-67, Cl. 178—25.

Kleinschmidt, Edward F., and D. F. Frick, to SCM Corp. Electronic receiver-controller with storage unit. 3,359,368, 12-19-67, Cl. 178—89.

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Kleinsorge, Carl T. Reclining chair. 3,338,632, 8-29-67, Cl. 297—330.

Kleinstra, Harm, to A. B. Dick Holland N.V. Device for production of copy by diffusion transfer. 3,323,435, 6-6-67, Cl. 95—89.

Kleinstra, Harm, to A. B. Dick, Holland N.V. Apparatus for carrying out a diffusion transfer process. 3,334,564, 8-8-67, Cl. 95—89.

Kleiss, Louis D. Apparatus for loading shells for small arms. 3,345,904, 10-10-67, Cl. 86—25.

Kleist, LeRoy, J. R. Thompson, and P. A. Zepf, to The Magnavox Co. Camera coder. 3,334,539, 8-8-67, Cl. 88—24.

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Klem, Carl T., and L. Gyongyosi, to Ingersoll-Rand Co. Rock drilling apparatus. 3,302,735, 2-7-67, Cl. 175—85.

Klem, Carl T., and L. A. D. Paulson, to Ingersoll-Rand Co. Drill rod storage and handling apparatus. 3,336,991, 8-22-67, Cl. 175—85.

Klem, Stanley J., Jr., to General Aniline & Film Corp. Paper guiding and evaporation control in moist reproduction machines. 3,318,222, 5-9-67, Cl. 95—94.

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Klemchuk, Peter P., to Geigy Chemical Corp. Dialkyltin and divalent metal salts of acyclic polycarboxylic acids. 3,305,-568, 2-21-67, Cl. 260—429.

Klemchuk, Peter P., to Geigy Chemical Corp. Polyvinyl chloride compositions stabilized with dialkyltin and other divalent metal salts. 3,330,803, 7-11-67, Cl. 260—45.75.

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Klemm, Edwin O., and G. K. Mulholland, to Saginaw Products Corp. Steering apparatus for towable vehicles. 3,311,387, 3-28-67, Cl. 280—103.

Klemm, Richard W. Lift mechanism for rail conveyors. 3,338,-179, 8-29-67, Cl. 104—172.

Klemm, William F., and H. Alber; ⅛ to H. B. Peter. Adjustable flow control for metered flow of fluid. 3,323,535, 6-6-67, Cl. 137—110.

Klemm, William F., and H. Alber; ⅛ to H. B. Peter. Adjustable control for metered flow. 3,335,748, 8-15-67, Cl. 137—501.

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Klepp, George F., O. H. Dalton, and G. P. De Mengel, to International Standard Electric Corp. Character display tubes. 3,303,375, 2-7-67, Cl. 313—109.5.

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Klessig, Ernst F., to Racine Hydraulics & Machinery, Inc. Hydraulic hammer. 3,339,644, 9-5-67, Cl. 173—127.

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Klevens, Howard B., to Ethicon, Inc. Process of forming collagen articles and dispersions. 3,303,038, 2-7-67, Cl. 106—155.

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Klieves, Harold A. Outrigger clip. 3,357,126, 12-12-67, Cl. 43—43.12.

Kliewer, Donald L., to Plastic Mold & Engineering Co. Dynamic ear phone. 3,329,777, 7-4-67, Cl. 179—115.5.

Kliewer, Wesley P. Actuation device for actuating article dispensers. 3,344,897, 10-3-67, Cl. 194—4.

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Lefief, Frank M. 3,318,205.
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Klima, Robert, to Robert Klima Lederbekleidung. Shoe closure having a notched clamping lever mounted on a pressure distributing plate. 3,333,302, 8-1-67, Cl. 24—70.

Klima, Robert, Lederbekleidung: *See*—
Klima, Robert. 3,333,302.

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Klimback, Kenneth K.: *See*—
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Klimek, Boleslaw, to Berg Mfg. & Sales Co. Dual application valve. 3,355,223, 11-28-67, Cl. 303—52.

Klimenko, Mikhail J., to Nauchno-Issledovatelsky Institute Sintetigheskikh Spirtov i Organicheskikh Produktov. Method for production of catalyst for hydration of olefins to alcohols. 3,311,568, 3-28-67, Cl. 252—435.

Klimkovsky, Bronislav M.: *See*—
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Klimkowski, Robert J., L. Amariti, and G. E. Beauchamp, to Eugene Dietzgen Co. Diazotype material comprising a metal sulfate nitrogenous compound polymeric anhydride. 3,316,092, 4-25-67, Cl. 96—91.

Klimonova, Zoja M.: *See*—
Vorobjeva, Valentina J., Mikhlina, Roobtsov, Zelinsky, Klimonova, Gorodetsky, and Zelfman. 3,342,828.

Klimstra, Paul D., to G. D. Searle & Co. 3,17-bisoxygenated spiro-2-oxiranyl-5α-androstanes. 3,299,049, 1-17-67, Cl. 260—239.55.

Klimstra, Paul D., to G. D. Searle & Co. 17-oxygenated-5-androstane-2,3-episulfides. 3,301,850, 1-31-67, Cl. 260—239.5.

Klimstra, Paul D., to G. D. Searle & Co. 2/3-oxygenated-2/3-thiocyanato-5-androstan-17-ones and derivatives thereof. 3,301,876, 1-31-67, Cl. 260—397.3.

Klimstra, Paul D., to G. D. Searle & Co. (Optionally 17-alkylated) - 17β - hydroxy - 5A-androstano[2,3-D]-2-aminopyrimidines and acyl derivatives thereof. 3,318,872, 5-9-67, Cl. 260—239.5.

Klimstra, Paul D., to G. D. Searle & Co. 17β-(substituted-oxy)-5α-androst-2-enes. 3,326,903, 6-20-67, Cl. 260—239.55.

Klimstra, Paul D., to G. D. Searle & Co. Process and intermediates for manufacture of 17-substituted 3-keto-Δ^4 and 3-keto-$\Delta^{8(10)}$ steroids. 3,336,301, 8-15-67, Cl. 260—239.55.

Klimstra, Paul D., to G. D. Searle & Co. (Optionally 17-alkylated) 3α-oxygenated 1-sulfonated 5α-androstan-17β-ols and esters thereof. 3,338,927, 8-29-67, Cl. 260—397.4.

Klimstra, Paul D., to G. D. Searle & Co. 3α-azido-5α-androstan-17-one and derivatipes thereof. 3,350,424, 10-31-67, Cl. 260—349.

Klimstra, Paul D., and J. S. Baran, to G. D. Searle & Co. 17-oxygenated 5α-ester-2-en-11-β-ols, 17-alkylated and esterified derivatives thereof. 3,338,929, 8-29-67, Cl. 260—397.45.

Klimstra, Paul M., to G. D. Searle & Co. 17β-(substituted-oxy)-3-oxygenated-5α-androst-1-enes. 3,352,853, 11-14-67, Cl. 260—239.55.

Klinck, John L., J. A. Van Horn, and R. T. Campbell, to Hamilton Watch Co. Electric clock self-starter. 3,332,229, 7-25-67, Cl. 58—28.

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Kline, Albert K. Oil well hold-down tool. 3,356,141, 12-5-67, Cl. 166—134.

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Blanshine, Allison W., and Kline. 3,342,308.

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Cannon, William N., Kline, and Dwight. 3,353,939.

Kline, John. Spare propeller holder. 3,347,353, 10-17-67, Cl. 206—1.

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Kling, Eugene V. Guardrail construction. 3,305,221, 2-21-67, Cl. 256—21.

Kling, Harry C., and E. Koslosky, to Wagner Electric Corp. Silicon diode with solder composition attaching ohmic contacts. 3,331,997, 7-18-67, Cl. 317—234.

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Kling, Nelson G., to Technicon Instruments Corp. Photoelectric device for cyclically generating control signals in which the cycle may be shifted. 3,307,041, 2-28-67, Cl. 250—236.

Kling, Nelson G., to Technicon Instruments Corp. Capacitance liquid-level detector. 3,335,344, 8-8-67, Cl. 317—246.

Kling, Nelson G., to Technicon Corp. Automatic immersion apparatus. 3,338,207, 8-29-67, Cl. 118—11.

Klingbeil, Raymond J., and A. E. Lang, to FMC Corp. Diffuser tube. 3,315,895, 4-25-67, Cl. 239—145.

Klingberg, Arthur F., to Beco Products Corp. Collapsible bird cage. 3,352,287, 11-14-67, Cl. 119—17.

Klingel, Erwin, J. Denk, and H. Bertsch. Method and apparatus for feeding articles to a packaging machine. 3,335,-841, 8-15-67, Cl. 198—34.

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Klingelhoefer, William C., to Allied Chemical Corp. Method and apparatus for determination of water in liquid ammonia. 3,354,057, 11-21-67, Cl. 204—1.

Klingelhoefer, William C., to Allied Chemical Corp. Drying liquid ammonia. 3,357,799, 12-12-67, Cl. 23—293.

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Klingenberg, Hans U. Watchcase with crystal retaining means. 3,307,346, 3-7-67, Cl. 58—91.

Klinger, Guenther H., and P. A. Landskroener, to General Aniline & Film Corp. Process for preparing photographic emulsions. 3,341,333, 9-12-67, Cl. 96—114.

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Gilchrist, Reginald S. 3,318,083.
Gilchrist, Reginald S. 3,344,621.
Gilchrist, Reginald S. 3,345,811.
Gilchrist, Reginald S. 3,350,869.
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Klingler, Emil A., W. Dawihl, and E. Dörre. Sintered transparent bodies of aluminum oxide and method of preparing the same. 3,311,482, 3-28-67, Cl. 106—65.

Klingler, Eugene H., to North American Aviation, Inc. Tunable absorber. 3,309,704, 3-14-67, Cl. 343—18.

Klingsberg, Erwin, to American Cyanamid Co. Dithiolium compounds and preparation. 3,299,055, 1-17-67, Cl. 260—240.

Klingsberg, Erwin, to American Cyanamid Co. Biocidal compositions containing 4,5-dicyano-1,3-dithiole-2-thione oxide. 3,318,767, 5-9-67, Cl. 167—33.

Klinikowski, James J., to Burroughs Corp. Semiconductor counting circuits. 3,304,436, 2-14-67, Cl. 307—88.5.

Klinikowski, James J., to Burroughs Corp. Electronic decoder circuits. 3,304,548, 2-14-67, Cl. 340—347.

Klinikowski, James J., to Burroughs Corp. Pulse generating circuits. 3,307,174, 2-28-67, Cl. 340—359.

Klinikowski, James J., to Burroughs Corp. Electronic diode matrix decoder circuits. 3,309,695, 3-14-67, Cl. 340—347.

Klinikowski, James J., to Burroughs Corp. Semiconductor counter circuit. 3,329,834, 7-4-67, Cl. 307—88.5.

Klinikowski, James J., to Burroughs Corp. Coin-operated dispensing system. 3,344,898, 10-3-67, Cl. 194—9.

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Klink, John D., and A. W. Goos, to Cliffs Dow Chemical Co. Charcoal fire kindler. 3,297,420, 1-10-67, Cl. 44—34.

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Klinkenberg, Hubert E., to Warner Electric Brake & Clutch Co. Method of making a magnetic ring. 3,332,145, 7-25-67, Cl. 29—607.

Klinkenberg, Hubert E., and L. W. Simonson, to Warner Electric Brake & Clutch Co. Method of constructing magnetic friction couplings. 3,321,827, 5-30-67, Cl. 29—469.

Klinkenberg, Hubert E., and L. W. Simonson, to Warner Electric Brake & Clutch Co. Magnetic friction couplings. 3,322,249, 5-30-67, Cl. 192—18.

Klinkenberg, Hubert E., and L. W. Simonson, to Warner Electric Brake & Clutch Co. Electric motor mounted magnetic friction brake. 3,338,349, 8-29-67, Cl. 188—161.

Klinkhamer, Jacob F., to North American Philips Co. Inc. Thin film cryotron device composed of a plurality of superimposed planar elements. 3,335,295, 8-8-67, Cl. 307—88.5.

Klinkhamer, Jacob F., to North American Philips Co. Inc. Magnetic core selection system having plural coded inputs. 3,351,908, 11-7-67, Cl. 340—147.

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Klinkmann, Kurt: *See*—
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Klint, Jan T. Apparatus for mechanically cracking eggs. 3,326,-255, 6-20-67, Cl. 146—2.

Klint, Joseph E., Jr., ½ to A. Dreier. Pulling head for drapery pressing machine. 3,295,731, 1-3-67, Cl. 223—32.

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Prentice, George D. 3,319,832.
Prentice, George D. 3,331,640.

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Klipping, Gustav, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Siphon. 3,306,060, 2-28-67, Cl. 62—55.

Klipping, Gustav, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Cooling device for helium. 3,307,-370, 3-7-67, Cl. 62—210.

Klipping, Gustav. Cryogenic method. 3,330,125, 7-11-67, Cl. 62—55.5

Klipping, Gustav, to Max-Planck-Gesellschaft zur Foderung der Wissenschaften e.V. Method and device for cooling superconducting coils. 3,358,472, 12-19-67, Cl. 62—514.

Klipping, Gustav, and H. Dietrich, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Control device. 3,307,367. 3-7-67, Cl. 62—49.

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Klipsch, Paul W., to Klipsch and Associates, Inc. Logarithmic converter circuit. 3,330,966, 711-67, Cl. 307—43.

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Klitzner, Robert A. Reversible tie clip. 3,337,924, 8-29-67, Cl. 24—49.

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Klix, Uwe, to Entwicklungsanstalt fur Industrie-Elektronik. Controllable supply circuit for electromagnetic vibrators. 3,355,633, 11-28-67, Cl. 317—148.5.

Kljuchnikov, Vitaly J., E. B. Tsvetkov, V. V. Fetisov, A. I. Murlykin, M. A. Rudensky, and E. N. Taruntaeva, to Tsentralny Nauchno-Issledovntelsky i Proektno-Konstruktorsky-Institut Mekhanizatsii i Energetiki Lesnoi Promyshleunosti. Arrangement for presetting log lengths in cross-cutting tree lengths. 3,343,644, 9-26-67, Cl. 198—1.

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Decker, Hanns, and Stockmann. 3,345,000.
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Klockow, Dennis H., to Bell Telephone Laboratories, Inc. Coupling circuit arrangement for the selective distribution of power. 3,358,247, 12-12-67, Cl. 333—8.

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Dusing, Gerhard, Bretschneider, Kloepfer, Sperr, and Schmidt. 3,338,669.

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Kloesel, Joseph A., Jr., and S. T. Crews, to Drilco Oil Tools, Inc. Roller reamer. 3,306,379, 2-28-67, Cl. 175—345.

Kloesel, Joseph A., Jr., and S. T. Crews, to Drilco Oil Tools, Inc. Threaded connections. 3,355,192, 11-28-67, Cl. 285—94.

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Kloos, Nantko, to Shell Oil Co. Alkyd resins prepared from monoglycerides of olefinically unsaturated monocarboxylic acids and glycidyl esters of saturated aliphatic monocarboxyl acids and process for the reproduction of same. 3,332,898, 7-25-67, Cl. 260—22.

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Kloosterman, Cornelis U., and B. H. Torn Broers, to Koninklijke Industrieele Maatschappij vorheen Noury & Van der Landle N.V. Process for the preparation of organic peroxides. 3,310,588, 3-21-67, Cl. 260—610.

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Klopfer, Oskar E. H., to Ethyl Corp. Cellular plastic compositions. 3,338,846, 8–29–67, Cl. 260—2.5.

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Klos, Nicolaas H., to Hughes Aircraft Co. Assembly for packaging electronic components. 3,316,457, 4–25–67, Cl. 317—100.

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Klosa, Josef, to Dr. Hans Volgt, med., Chem.-Pharm. Fabrik. Alkylamino-alkyl-(rutin or hesperidin)-3,4-dihydro-1,2,4-benzothiadiazine-1,1-dioxides and method for making the same. 3,346,559, 10–10–67, Cl. 260—210.

Klosa, Josef, to Delmar Chemicals Ltd. Pyrazolone derivatives and process for their preparation. 3,354,167, 11–21–67, Cl. 260—295.

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Klose, Karl: *See*—
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Klosek, Felix P., R. E. Nicolson, and S. P. Spence, to Union Carbide Corp. Continuous milling and devolatilizing process. 3,327,034, 6–20–67, Cl. 264—85.

Kloss, Rolf: *See*—
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Kloss, Theodore E., to Allied Chemical Corp. Two stage pulping process including impregnating chips with ammonia, then liberating the ammonia and pulping with magnesium compound. 3,350,258, 10–31–67, Cl. 162—15.

Klossika, Walter, to Telefunken Patentverwertungs-G.m.b.H. Semiconductor stabilized mechanically and electrically by a first layer of lacquer and a second layer of boric oxide. 3,296,503, 1–3–67, Cl. 317—234.

Klosterman, Myles F. Spring biased bumper. 3,295,880, 1–3–67, Cl. 293—85.

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Klug, Eugene D., to Hercules Inc. Mixed cellulose ethers. 3,357,971, 12–12–67, Cl. 260—275.

Klug, Eugene D., to Hercules Inc. Process of making thermoplastic shaped articles from hydroxypropyl cellulose having an M. S. of at least 2. 3,314,809, 4–18–67, Cl. 106—197.

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Klug, Oluf W. H. Process for producing foam bodies from sulfite waste liquor and a foam product produced according to the process. 3,313,745, 4–11–67, Cl. 260—2.5.

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Klugman, Jack A., to Sterling Industries, Inc. Telescoping recessed lighting fixture. 3,313,931, 4–11–67, Cl. 240—78.

Klumb, Hank, and H. E. Rogers; said Rogers assor. to said Klumb. Telephone operating attachment. 3,296,382, 1–3–67, Cl. 179—99.

Klumb, Hank, and H. E. Rogers, to The Teleminder Co. Automatic telephone dialing and calling apparatus. 3,322,905, 5–30–67, Cl. 179—90.

Klumb, Henry H., and H. C. Rogers, to The Teleminder Co. Automatic telephone dialing and calling apparatus. 3,360,612, 12–26–67, Cl. 179—90.

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Kluth, Engelbert, to Jagenberg-Werke AG. Method and apparatus for the elimination of defective sheets or packs of sheets emanating from machines for producing sheets. 3,335,625, 8–15–67, Cl. 83—27.

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Kluttz, Walter A. 3,324,643.

Kluttz, Walter A., to Kluttz Machine & Foundry Co. Lubrication apparatus for spinning or twisting ring assemblies. 3,302,382, 2–7–67, Cl. 57—120.

Kluttz, Walter A., to Kluttz Machine & Foundry Co. Spinning or twisting ring assembly. 3,304,707, 2–21–67, Cl. 57—120.

Kluttz, Walter A., to Kluttz Machine & Foundry Co., a partnership composed of Jo Ann, Jean, J. W., and W. A. Kluttz. Airborne spinning or twisting ring and traveler. 3,324,643, 6–13–67, Cl. 57—124.

Kluver, Johan W., to Bell Telephone Laboratories, Inc. Low noise laser amplifier with plural sections respectively between confocally spaced focusers with screens. 3,302,120, 1–31–67, Cl. 330—4.3.

Kluver, Johan W., to Bell Telephone Laboratories, Inc. Electron beam device. 3,316,439, 4–25–67, Cl. 315—3.5.

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Knapp, George P., and W. E. Dean, to Mount Hope Machinery Co. Selvage uncurler and method of uncurling selvages of webs. 3,324,525, 6–13–67, Cl. 26—54.

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Knock, Frances E., to E. R. Squibb & Sons, Inc. N-substituted maleimide compounds. 3,337,584, 8–22–67, Cl. 260—326.3.

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Koenig, Nathan H., to United States of America, Agriculture. Modification of wool with organic chlorophosphate in the presence of methylpyrrolidone and butyrolactone. 3,332,734, 7-25-67, Cl. 8—128.

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Koerner, Ralph J., to The Bunker-Ramo Corp. Three state storage device. 3,355,726, 11-28-67, Cl. 340—174.

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Kohler, Dale M., to Armco Steel Corp. Production of oriented silicon-iron using grain growth inhibitor during primary recrystallization heat treatment. 3,333,992, 8–1–67, Cl. 148—113.
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Kohler, Jacob W. L., H. Fokker, and R. J. Meeijer, to North American Philips Co., Inc. Leakage prevention arrangement for hot-gas reciprocating apparatus. 3,355,882, 12–5–67, Cl. 60—24.
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Kossnar, Dennis J., to Container Corp. of America. Domed cover two piece carton. 3,300,117, 1–24–67, Cl. 229—32.

Kossoff, Arnold H. and I. I. Box with fully telescoped hinged cover. 3,338,504, 8–29–67, Cl. 229—33.

Kossoff, Irwin I.: *See*—
Kossoff, Arnold H. and I. I. 3,338,504.

Kossoff, Joseph: *See*—
Ryan, John W., Kossoff, May, and Cowell. 3,353,296.

Kost, Erwin, to Kommanditgesellschaft Friedrich Kocks. Apparatus for testing pipe under internal pressure. 3,334,515, 8–8–67, Cl. 73—49.5.

Kost, Erwin, and A. Bindernagel, to Kommanditgesellschaft Friedrich Kocks. Sealing a clamping head for an end of a tube to be pressure-tested. 3,331,238, 7–18–67, Cl. 73—49.5.

Kost, James W. Brush-on packages. 3,323,642, 6–6–67, Cl. 206—56.

Kosta, Peter L., to Jacuzzi Bros. Inc. Hydrotherapy apparatus with means for mounting in bathtub drain. 3,304,936, 2–21–67, Cl. 128—66.

Kostanty, Raymond: *See*—
Doniger, Jerry, and Kostanty. 3,335,980.

Kostenko, Arthur, to The Getzen Co., Inc. Limit stop for brass musical instrument. 3,329,056, 7–4–67, Cl. 84—388.

Köster, Alfred: *See*—
Schnurch, Roland, Köster, and Heise. 3,346,335.

Koster, Claus: *See*—
Eheim, Franz, Hofer, Koster, and Wegener. 3,339,534.

Koster, Claus, and G. Hofer, to Robert Bosch, G.m.b.H. Regulated injection pump. 3,320,893, 5–23–67, Cl. 103—41.

Koster, Robert A., to The Bunker-Ramo Corp. Symbol display apparatus. 3,298,013, 1–10–67, Cl. 340—324.

Koster, Robert A., to The Bunker-Ramo Corp. Position control system employing pulse producing means indicative of magnitude and direction of movement. 3,304,434, 2–14–67, Cl. 250—231.

Koster, Robert A., to The Bunker-Ramo Corp. Method for exposing photosensitive material. 3,311,918, 3–28–67, Cl. 346—1.

Koster, Robert A., F. J. Beach, and R. F. Bryan, to The Bunker-Ramo Corp. Control/display apparatus. 3,346,853, 10–10–67, Cl. 340—172.5.

Koster, Roland, to Studiengesellschaft Kohle m.b.H. 1-aluminum indanes and 1-aluminum tetralines and their manufacture. 3,360,537, 12–26–67, Cl. 260—448.

Kostial, Ben C., to Texas National Mfg. & Sales Co. Knockdown broiling and roasting apparatus. 3,359,963, 12–26–67, Cl. 126—9.

Kostin, Richard M., and W. B. Schueren, to The Ford Motor Co. Convertible backlight. 3,333,362, 8–1–67, Cl. 49—248.

Kostopoulos, Anthony, and P. V. Colombo, to American Machine & Foundry Co. Candlepin elevator, distributor and control system. 3,307,847, 3–7–67, Cl. 273—43.

Kostrewa, John J., to Evans Products Co. Freight bracing apparatus. 3,344,750, 10–3–67, Cl. 105—369.

Kostuch, Donald J., to International Business Machines Corp. Simple high-voltage pulse generating system. 3,358,216, 12–12–67, Cl. 323—18.

Kostur, J Edward, Sr., deceased (Pioneer Trust & Savings Bank, executor), to Comet Industries, Inc. Apparatus for high-speed packaging of articles. 3,315,438, 4–25–67, Cl. 53—141.

Kotani, Yasuo: *See*—
Mori, Masao, Kotani, and Fujita. 3,296,299.

Kotek, Alfred J.: *See*—
Carlson, John H., and Kotek. 3,309,066.

Kotesovec, Vladimir, J. Zizka, and V. Janata, to Vyzkumny a vyvojovy ustav drevardsky. Method and apparatus for rip sawing of logs and timbers. 3,304,972, 2–21–67, Cl. 144—326.

Kotesovec, Vladimir, J. Zizka, and V. Janata, to Vyzkumny a vyvojovy ustav drevardsky. Apparatus for rip sawing of logs and timbers. 3,347,289, 10–17–67, Cl. 143—36.

Kothe, Ewald, to United Aircraft Corp. Helmet feedport. 3,359,568, 12–26–67, Cl. 2—6.

Kothelmier, William C., to General Electric Co. Overcurrent protective means. 3,317,794, 5–2–67, Cl. 317—36.

Kothmann, Gilbert C. Universal hitch for emergency drawbar. 3,326,576, 6–20–67, Cl. 280—515.

Kotis, Richard J. Trolling minnow rig. 3,327,423, 6–27–67, Cl. 43—44.2.

Kotlar, Rudolph J., A. H. Raack, and C. A. Truckenbrodt. Snow and ice melting apparatus. 3,304,632, 2–21–67, Cl. 37—12.

Kotler, Aaron L., to The Goshen Mfg. Co., Inc. Glider oscillating on rollers. 3,350,134, 10–31–67, Cl. 297—246.

Kotler, Gerald R.: *See*—
Johnston, William C., Kotler, and Tiller. 3,322,183.

Koto, Senzo: *See*—
Kawasaki, Kaoru, Kawata, and Koto. 3,342,015.

Kotos, Peter, to General Electric Co. Electromagnetic induction-type protective relay having improved adjustment means. 3,334,321, 8–1–67, Cl. 335—177.

Kotoucek, Waldemar R., to Ford Motor Co. Single pedal dual brake system. 3,353,635, 11–21–67, Cl. 188—106.

Kotov, Vladimir A., N. A. Shljapin, and I. I. Kirichinsky, to Nauchno-Issledovatelsky Institute Tekhnotogii artomobilnoi promyshlennosti. 3,359,769, 12–26–67, Cl. 72—200.

Kots, Johan T.: *See*—
Blok, Lourens, Van, and Kots. 3,302,060.

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Kott, Karl-Heinz: *See*—
Knapp, Karl-Heinrich, Sinn, Dinges, and Ott. 3,297,628.

Kottas, Leo J.: *See*—
Scott, Charles D., and Lutzenhiser. 3,315,402.

Kottenhahn, Alfred P., to E. I. du Pont de Nemours and Co. 4-hexenyl aluminum compounds. 3,328,447, 6–27–67, Cl. 260—448.

Kotter, James I., E. F. Wallace, and H. L. Salaun, Jr., to United States of America, Agriculture. Method of making a fiber processing cylinder. 3,325,880, 6–20–67, Cl. 29—148.4.

Kottler, Franklin D.: *See*—
Williams, Francis A., and Kotler. 3,335,651.

Kottler, Franklin D., to Eastman Kodak Co. Multilamp flash photography. 3,319,548, 5–16–67, Cl. 95—11.

Kottler, Franklin D., to Sylvania Electric Products Inc. Multilamp photoflash package. 3,327,106, 6–20–67, Cl. 240—1.3.

Kottler, Franklin D., C. G. Vroom, and D. M. Peterson, to Sylvania Electric Products Inc. Disposable multilamp photoflash unit. 3,327,105, 6–20–67, Cl. 240—1.3.

Kotuji, Makoto: *See*—
Shoji, Koichi, and Kotuji. 3,357,535.

Kouba, Delore L., to Hercules Inc. Process for the manufacture of p-nitrosophenol. 3,320,324, 5–16–67, Cl. 260—621.

Koundakjian, Theodore H., and J. L. Dreher, to Chevron Research Co. Production of complex basic aluminum soap greases. 3,345,291, 10–3–67, Cl. 252—37.7.

Kouns, Herbert H.: *See*—
Milleti, Joseph A., Kouns, and Pesce. 3,315,085.

Kouns, Herbert H., to Abex Corp. Hydraulic fluid energy translating device. 3,304,884, 2–21–67, Cl. 103—162.

Kourkene, Jacques P. Apparatus and method for anchoring post-tensioning tendons in prestressed structures. 3,307,310, 3–7–67, Cl. 52—230.

Koury, Frederic: *See*—
Butler, Keith H., Koury, and Waymouth. 3,334,261.
Corbin, Victor L., Koury, and Levesque. 3,350,598.
Waymouth, John F., and Koury. 3,324,332.
Waymouth, John F., and Koury. 3,331,982.

Koury, Frederic, and J. F. Waymouth, to Sylvania Electric Products Inc. High pressure electric discharge device having electrodes with thorium on the exposed surface thereof. 3,313,974, 4–11–67, Cl. 313—218.

Kousenfabrieken Hin N.V.: *See*—
Brinck, Ernst J., and Priem. 3,339,338.

Koutnik, Rodrick J., to Snap-Tite, Inc. Balanced multi-way valve. 3,357,454, 12–12–67, Cl. 137—627.5.

Kouzuki, Tadao. Chain sprocket changing means for motorcycles. 3,321,040, 5–23–67, Cl. 180—33.

Kovac, Frederick J., and G. W. Rye, to The Goodyear Tire & Rubber Co. Method of making a pneumatic cord tire. 3,345,228, 10–3–67, Cl. 156—126.

Kovac, James J.: *See*—
Peterson, Don W., Kovac, Calvin, and Puse. 3,345,109.

Kovacevic, Boris N. Apparatus for dispensing lighted cigarettes. 3,307,741, 3–7–67, Cl. 221—143.

Kovacevich, George. Baby carriage seats. 3,331,633, 7–18–67, Cl. 297—379.

Kovach, John T., Jr., and C. W. Thompson, to American Gas Association, Inc. Apparatus for sensing the composition of gases, and gas burner system employing same. 3,295,585, 1–3–67, Cl. 158—130.

Kovach, Leslie J., and B. V. Menegus. Modern Plastic Machinery Corp. Extrusion die for blown film. 3,311,952, 4–4–67, Cl. 18—14.

Kovach, Stephen M., to Sinclair Research, Inc. Liquid phase polymerization of olefins using a zinc fluoride-alumina catalyst. 3,296,331, 1–3–67, Cl. 260—683.15.

Kovach, Stephen M., to Sinclair Research, Inc. Liquid phase polymerization of olefins using a boria-alumina catalyst. 3,311,672, 3–28–67, Cl. 260—683.15.

Kovach, Stephen M., to Sinclair Research, Inc. Hydrogenation of aromatic hydrocarbons using cobalt hydrogenation catalysts. 3,324,190, 6–6–67, Cl. 260—667.

Kovach, Stephen M., and E. S. Rogers, to Sinclair Research, Inc. Process for removing nitrogen with cobalt-rare earth and group catalyst. 3,345,286, 10–3–67, Cl. 208—254.

Kovacik, Henry. Table stand. 3,322,077, 5–30–67, Cl. 108—111.

Kovacik, Stephen, and L. W. Cramer, to Libbey-Owens-Ford Glass Co. Trimming glass sheets. 3,344,968, 10–3–67, Cl. 225—2.

Kovacs, Geza L., to New Canadian Processes Ltd. Process for treating cold rolling mill effluent containing oil emulsified in water. 3,301,779, 1–31–67, Cl. 210—44.

Kovacs, Geza L., to Palm Oil Recovery, Inc. Process for treating and recovering rolling oil. 3,352,137, 11–14–67, Cl. 72—42.

Kovacs, Lloyd, to Midland-Ross Corp. Sheet extrusion die. 3,308,222, 3–7–67, Cl. 264—176.

Kovalcik, James L. Back-up tab for siding. 3,339,333, 9–5–67, Cl. 52—672.

Kovalevski, Nicholas, to Alfred Electronics. Oscillator circuit with variable capacitor. 3,332,035, 7–18–67, Cl. 331—117.

Kovalik, Albert E., and S. H. S. Raub, to Union Carbide Corp. Heat interchanger. 3,327,777, 6–27–67, Cl. 165—81.

Kovalik, Albert E., J. L. Miller, and H. S. Raub, to Union Carbide Corp. Ground anode-to-cable connection. 3,340,173. 9–5–67, Cl. 204—196.

Kovalsky, Stephen J., and R. A. Olson, to FMC Corp. Method for producing stable salts of dichloroisocyanuric acid (II). 3,299,060, 1–17–67, Cl. 260—248.

Kovar, Jaroslav: *See*—
Jurny, Josef, and Kovar. 3,309,935.

Kovats, Andre. Stationary hot air building heating system using a gas turbine driven fan. 3,353,529, 11–21–67, Cl. 126—110.

Kovats, William S., to G & W Electric Specialty Co. Locking plate structure for a spring energized switch operator. 3,330,919, 7–11–67, Cl. 200—42.

Kovetz, Paul: *See*—
Beaird, Francis M., Jr., and Kovetz. 3,355,262.

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Stoljarov, Alexei M., Khorosheva, Matveev, Konstaninova, Brjanov, and Kovrigina. 3,360,298.

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Peterson, William E., and Kowalick.
Kowalick, James F., to United States of America, Army. Liquid propellant piezometer. 3,320,793, 5–23–67, Cl. 73—53.
Kowalick, James F., and W. E. Perkins, to United States of America, Army. Propellant gas generator. 3,305,319, 2–21–67, Cl. 23—281.
Kowalick, James F., and G. F. Hare, Jr., to United States of America, Army. Pyrotechnic delay device for mild detonation cord. 3,320,884, 5–23–67. Cl. 102—27.
Kowalik, Thomas J.: *See*—
Perron, Albert J., and Kowalik.
Kowalski, Ben C. Stretch bending machine. 3,339,391, 9–5–67, Cl. 72—151.
Kowalski, Charles J., to Cartofax Corp. Electrophotographic reproducing apparatus. 3,318,213, 5–9–67, Cl. 95—1.7.
Kowalski, Fred: *See*—
Hajduk, Thaddeus J., and Kowalski.
Kowalski, John E., and H. A. Nelson, to Dodge Mfg. Corp. Variable speed pulley drive. 3,303,710, 2–14–67, Cl. 74—230.17.
Kowalski, Joseph W., to James R. Kearney Corp. Service drop clamp for electric conductor feeder. 3,306,970, 2–28–67, Cl. 174—79.
Kowalski, Robert J. Archery bow sight. 3,310,875, 3–28–67, Cl. 33—46.
Kowalski, Slawomir, to Marotta Valve Corp. Union with provision for misalignment. 3,332,709, 7–25–67, Cl. 285—23.
Kowalski, Walter, to McGraw-Edison Co. Reversible sectionalizing switch. 3,316,367, 4–25–67, Cl. 200—48.
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Ziegler, Hans-Werner, Berg, and Kowalski. 3,307,679.
Ziegler, Hans-Werner, Kowalski, and Hinz. 3,345,443.
Kowalski, Xavier, to Monsanto Co. Solid shaped sterilizing, sanitizing, and disinfecting compositions. 3,296,069, 1–3–67, Cl. 167—33.
Kowalski, Xavier, to Monsanto Co. Sterilizing, sanitizing, and/or disinfecting shapes. 3,342,674, 9–19–67, Cl. 167—42.
Kowata, Yasuo, to Pennsalt Chemicals Corp. Centrifugal solids dewatering and treating process and apparatus. 3,302,873, 2–7–67, Cl. 233—7.
Kowols, Gilbert J., to Mark Products Co. Single sideband transceiver having common transmit and receiver apparatus. 3,300,720, 1–24–67, Cl. 325—20.
Koy, Milton P., 75% to F. W. Gartner Co. Concrete pump. 3,320,901, 5–23–67, Cl. 103—152.
Koyak, Joseph W., to Vandercook & Sons, Inc. Inking system for printing presses. 3,353,484, 11–21–67, Cl. 101—350.
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Koyanagi, Yukio, to Matsushita Electric Industrial Co., Ltd. Cathode ray tubes and apparatus using the same. 3,352,970, 11–14–67, Cl. 178—7.85.
Koza, Russell C., to General Electric Co. Scale plate mounting system for edgewise instrument. 3,298,351, 1–17–67, Cl. 116—129.
Kozacik, Alfred P., and H. Myers, to Mobil Oil Corp. Nonselective herbicidal method. 3,360,358, 12–26–67, Cl. 71—102.
Kozacik, John J., to Philip Carey Mfg. Co. Cement-asbestos products, and improvement in the manufacture thereof. 3,354,031, 11–21–67, Cl. 162—145.
Kozacka, Frederick J., to The Chase-Shawmut Co. Electric high-voltage fuse having means for effecting sequential vaporization of portions of fusible element. 3,296,399, 1–3–67, Cl. 200—120.
Kozacka, Frederick J., to The Chase-Shawmut Co. Electric fuse including heater winding for solder joint. 3,313,899, 4–11–67, Cl. 200—123.
Kozacka, Frederick J., to The Chase-Shawmut Co. Springless time lag fuse for motor circuits. 3,319,028, 5–9–67, Cl. 200—120.
Kozacka, Frederick J., to The Chase-Shawmut Co. Supercompact polyphase fuse. 3,342,962, 9–19–67, Cl. 200—120.
Kozacka, Frederick J., to The Chase-Shawmut Co. Dual element cartridge fuse for small current intensities. 3,342,964, 9–19–67, Cl. 200—123.
Kozak, Andrew F., to Data Instruments Division. Vertically sliding door. 3,304,994, 2–21–67, Cl. 160—202.
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Kozbelt, Lloyd S., and D. M. Cunningham, to Edwin L. Wiegand Co. Electric heater assembly. 3,350,674, 10–31–67, Cl. 338—316.
Kozel, James A., to American Radiator & Standard Sanitary Corp. Pilot-operated valve. 3,300,175, 1–24–67, Cl. 251—30.
Kozhevnikow, Sergei N., B. M. Klimkovsky, A. S. Tkachenko, and A. V. Prazdnikov, to Institute Chernol Metallurgii. Device for balancing forces of inertia of the reciprocally moving masses. 3,337,209, 8–22–67, Cl. 267—75.
Kozikowski, John, and M. Cais, to Ethyl Corp. Process for preparing vinylcyclopentadienyl manganese tricarbonyl. 3,306,916, 2–28–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. Process for preparing acylcyclopentadienyl manganese tricarbonyl ester condensation products. 3,308,141, 3–7–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. Cyclopentadienyl manganese tricarbonyl sulfones. 3,317,575, 5–2–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. Organomanganese indole compounds and process for preparing same. 3,321,485, 5–23–67, Cl. 260—319.1.
Kozikowski, John, and M. Cais, to Ethyl Corp. Cyclopentadienyl sulfonic acid and sulfonyl halide manganese tricarbonyls. 3,330,844, 7–11–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. Cyclopentadienyl sulfinic acid manganese tricarbonyls. 3,330,845, 7–11–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. Chlorocarbonylcyclopentadienyl manganese tricarbonyls and processes for preparing same. 3,330,846, 7–11–67. Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. [(2,5-dihydroxyphenyl sulfonyl) cyclopentadienyl] manganese tricarbonyls. 3,335,157, 8–8–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. [(Alkoxyphenyl sulfonyl) cyclo-pentadienyl] manganese tricarbonyls. 3,338,934, 8–29–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. [(P-tolylsulfamoyl) cyclopentadienyl] manganese tricarbonyl. 3,350,430, 10–31–67, Cl. 260—429.
Kozikowski, John, and M. Cais, to Ethyl Corp. Alkali metal salts of cyclopentadienyl carboxylic acid manganese tricarbonyls and their free acids. 3,350,431, 10–31–67, Cl. 260—429.
Kozikowski, Joseph L., to Burroughs Corp. Direct coupled transistor amplifier having complementary symmetry output and switchable feedback loop for driving a deflection coil. 3,303,380, 2–7–67, Cl. 315—27.
Koziol, Konrad, and G. Kller, to C. Conradty. Method of screw connecting carbon or graphite electrodes. 3,322,446, 5–30–67, Cl. 287—127.
Kozlov, Leonid P. Mechanism of percussive action. 3,356,165, 12–5–67, Cl. 173—124.
Kozlowski, Robert H., to Chevron Research Co. Hydrocracking process producing lubricating oil. 3,308,055, 3–7–67, Cl. 208—111.
Kozlowski, Robert H., to Chevron Research Co. Hydrocarbon conversion for light gas production. 3,314,878, 4–18–67, Cl. 208—58.
Kozol, Eugene T.: *See*—
Barcomb, James G., and Kozol. 3,323,119.
Kozorezov, Vladimir D.: *See*—
Azbukin, Jury I., Portnov, Avrukh, Kozorezov, and Mitelman. 3,322,985.
Kozuma, Noboru, and K. Fukawa, to Kabushiki Kaisha Hitachi Seisakusho. Transistor oscillator. 3,297,962, 1–10–67, Cl. 331—117.
Krabbe, Erik, and C. Akin, to Falstaff Brewing Corp. Neutral tasting alcoholic malt beverage. 3,332,779, 7–25–67, Cl. 99—31.
Krabberöd, Halvard, to Aktiebolaget Gotaverken. Arrangement in V-type combustion engines. 3,318,297, 5–9–67, Cl. 123—195.
Kracht, Gerhard, to Swedish Crucible Steel Co. Process of producing flexible foam polystyrene plastic sheeting. 3,309,440, 3–14–67, Cl. 264—53.
Kracklauer, Aloysius, to Sparkler Mfg. Co. Apparatus for use in filtering fluids. 3,344,922, 10–3–67, Cl. 210—81.
Kracklauer, Aloysius C., to Sparkler Mfg. Co. Spaced wall filter element having assembling means. 3,339,742, 9–5–67, Cl. 210—232.
Kradolfer, Friedrich: *See*—
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Kraebel, Charlotte M.: *See*—
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Kraeft, Robert W. Machine for cleaning and assorting table silver and control mechanism therefor. 3,339,564, 9–5–67, Cl. 134—58.
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Kraemer, William C., Jr., and C. R. Eckardt, to Allied Chemical Corp. Chlorinated polyethylene foam. 3,335,101, 8–8–67, Cl. 260—2.5.
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Pfeiffer, Hans, and Krafft. 3,296,902.
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Baldenhofer, William G., and Krafft. 3,341,983.
Kraft, Anton. Wire rope. 3,327,469, 6–27–67, Cl. 57—145.
Kraft, August L., to Automatic Process Control, Inc. Fluid metering means. Re. 26,213, 5–30–67, Cl. 137—565.
Kraft, Elroy J., to The Dole Valve Co. Anti-foaming flow restrictor. 3,307,751, 3–7–67. Cl. 222—464.
Kraft, Elroy J., to The Dole Valve Co. Adjustable liquid dispenser. 3,357,598, 12–12–67, Cl. 222—134.

Kraft, Gunther, and H. Beck, to Metallgesellschaft Aktiengesellschaft. Method of producing lithium fluoride. 3,326,631, 6–20–67, Cl. 23—88.
Kraft, Hans-Gunther: *See*—
Bruckner, Klaus, Bork, Kraft, and Kleser. 3,328,432.
Kraft, Louis S., Jr., to The Goodyear Tire & Rubber Co. Turn conveyor. 3,310,161, 3–21–67, Cl. 198—193.
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Kraft, Paul, to Wurttembergische Metallwarenfabrik. Brushing and polish machine. 3,324,493, 6–13–67, Cl. 15—21.
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Dietze, Manfred, and Kraft. 3,332,468.
Kraght, Albert J., and H. C. Marks, to Wallace & Tiernan Inc. Treatment of fruits and the like to inhibit decay. 3,347,683, 10–17–67, Cl. 99—156.
Kragle, Ralph J., to The International Silver Co. Clamp for rod like elements such as a cable. 3,295,872, 1–3–67, Cl. 287—115.
Krahn, Paul. Slide frame or the like. 3,312,516, 4–4–67, Cl. 312—330.
Krahnefeld, Helmut, to Veb Arzneimettelwerk Dresden. Method for the production of an abrasion-resistant discoloration-free caffeine granulate. 3,321,142, 5–23–67, Cl. 241—16.
Kraic, Otto, and K. Venygr, to Vstav pro Vyskum motorovych Vozidel. Rotary internal combustion engine. 3,323,498, 6–6–67, Cl. 123—8.
Kraicar, Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Device for generating a measuring voltage proportional to the output current of a power rectifier. 3,319,148, 5–9–67, Cl. 321—8.
Kraiker, Harry Jr., to Water Treatment Corp. Method for series water softening and series regeneration. 3,351,550, 11–7–67, Cl. 210—34.
Kraissl, Frederick, Jr. Multiple element filter assembly. 3,347,386, 10–17–67, Cl. 210—138.
Kraissl, Frederick, Jr. Concentric filter elements having assembling and locking means. 3,348,689, 10–24–67, Cl. 210—238.
Krajcinovic, Peter. Construction of channeled steel beams. 3,343,320, 9–26–67, Cl. 52—252.
Krajewski, Edward Z., to Litton Precision Products, Inc. Food package for use in microwave heating apparatus. 3,353,968, 11–21–67, Cl. 99—192.
Krakauer, C. Leonard, to Kay Mfg. Corp. Torsion spring and mattress edge. 3,305,879, 2–28–67, Cl. 5—260.
Krakauer, Daniel: *See*—
Krakauer, Edwin G. and D. 3,339,593.
Krakauer, Edwin G.: *See*—
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Pincus, Seymour, and Krakauer. 3,327,029.
Krakauer, Edwin G. and D., to Kay Mfg. Corp. Spring assembling machine. 3,339,593, 9–5–67, Cl. 140—92.8.
Krakauer, Merrill, and H. E. Verbeke. Article vending machine having helical feeder coil. 3,344,953, 10–3–67, Cl. 221—75.
Krakauer, Sidney, S. Musikant, and D. J. Rosenberg, to Certain-Teed Fiber Glass Corp. Spinning glass filaments. 3,347,648, 10–17–67, Cl. 65—3.
Krake, Guss L., and A. Van der Ziel, to United States of America, Army. Thermoelectric generators utilizing porous electron emitting materials. 3,358,162, 12–12–67, Cl. 310—4.
Krake, Kenneth V., to Kimberly-Clark Corp. Fabric belt for papermaking machine. 3,309,265, 3–14–67, Cl. 162—348.
Krakinowski, Morris, to International Business Machines Corp. Diaphragm switch having a diaphragm supported on an incompressible layer and an elastomer overlying the diaphragm 3,308,253, 3–7–67, Cl. 200—46.
Krakinowski, Morris, and S. U. Blaskovic, to International Business Machines Corp. Reader for punched record. 3,350,518, 10–31–67, Cl. 200—46.
Krakower, Gerald W.: *See*—
Diassi, Patrick A., and Krakower. 3,352,854.
Krakower, Gerald W., and P. A. Diassi, to E. R. Squibb & Sons, Inc. Synthesis of steroids. 3,297,720, 1–10–67, Cl. 260—343.2.
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Krallmann, Reinhold, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyeing or printing synthetic polyamide textile material. 3,311,444, 3–28–67, Cl. 8—55.
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Madrzyk, Edmund S., Collins, and Kramer. 3,330,705.
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Kramer, Bernhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of fast dyeings on cellulose fabrics. 3,306,699, 2–28–67, Cl. 8—26.
Kramer, Bernhard, and G. Henes, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of black dyeings on cellulose fabrics. 3,301,629, 1–31–67, Cl. 8—26.
Kramer, Charles F.: *See*—
Klemy, Albert J., Kramer, and Kaufmann. 3,349,809.
Kramer, Clarence F. Door lock mechanism. 3,345,100, 10–3–67, Cl. 292—48.
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Kramer, Douglas J., to Kramer Dental Studio, Inc. Process of preparing and producing dental cements for assuring accurate chemical balance of ingredients. 3,336,669, 8–22–67, Cl. 32—15.
Kramer, Friedrich S. Sewage digestion method and apparatus. 3,338,826, 8–29–67, Cl. 210—12.
Kramer, Friedrich S. Method and apparatus for the separation of straw and manure. 3,353,947, 11–21–67, Cl. 71—21.
Kramer, George M., and J. L. Carter, to Esso Research and Engineering Co. Alkyation process using aliphatic amine catalyst modifier. 3,324,196, 6–6–67, Cl. 260—683.51.
Kramer, Gordon, to Avco Corp. Device for measuring beam quality of ionizing radiation comprising first and second detectors of different radiation lengths. 3,329,815, 7–4–67, Cl. 250—83.3.
Kramer, Hans B. A., G. Messwarb, and W. Denk, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Reaction product of polyvinylphosphonic acid and 1-4-butanediol. 3,350.368, 10–31–67, Cl. 260—80.
Kramer, Hyman. Webbing-strip fasteners. 3,298,426, 1–17–67, Cl. 160—404.
Kramer, Hyman. Hinge brackets. 3,310,268, 3–21–67, Cl. 248—188.
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Kramer, Israel, to Kramer Trenton Co. Air conditioning or refrigeration system with means for cooling the compressor and controls. 3,299,658, 1–24–67, Cl. 62—263.
Kramer, Israel, to Kramer Trenton Co. Air cooled condenser fan arrangement for control of head pressure in a refrigeration or air conditioning system and method of installing the same. 3,299,650, 1–24–67, Cl. 62—89.
Kramer, Jack M., to General Connectors Corp. Vibration damping connector for conduits. 3,315,990, 4–25–67, Cl. 285—231.
Kramer, James H., to The B. F. Goodrich Co. Rubber torsion spring. 3,336,021, 8–15–67, Cl. 267—1.
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Kramer, Joseph. Cup or tumbler holder for attachment to aluminum chairs or the like. 3,317,171, 5–2–67, Cl. 248—229.
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Kramer, Leo, to Ingersoll-Rand Co. Axial piston pulse generator. 3,319,723, 5–16–67, Cl. 173—93.6.
Kramer, Leo, and R. P. Gillis, to Ingersoll-Rand Co. Torque control device. 3,304,746, 2–21–67, Cl. 64—26.
Kramer, Lyle L. Motor operated ambulatory vehicle. 3,331,463, 7–18–67. Cl. 180—8.
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Kramer, Richard R., to American Theromoform Corp. Thermoplastic forming machines. 3,317,960, 5–9–67, Cl. 18—19.
Kramer, Robert G., to Diamond International Corp. Removable identification band for cartons and blank for producing the same. 3,335,937, 8–15–67, Cl. 229—38.
Kramer, Robert G., to Diamond International Corp. Removable identification band for cartons and blank for producing the same. 3,335,938, 8–15–67, Cl. 229—38.
Kramer, Robert M. Instrument for the extraction of kidney stones. 3,334,630, 8–8–67, Cl. 128—328.
Kramer, Roger G., E. B. Hildum, and W. F. Bowin, to Simplex Time Recorder Co. Time recorder with identification badge scanner and readout lamp. 3,341,852, 9–12–67, Cl. 346—14.
Kramer, Rubin. Artificial illuminating device. 3,307,026, 2–28–67, Cl. 240—4.
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Kramer, Vance M., and L. W. Carlton. Apparatus for making spirally corrugated rubber tubing. 3,304,581, 2–21–67, Cl. 18—45.

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Kramer, Walter E., L. A. Joo, and R. M. Haines, to Union Oil Co. of California. Esters of N-N'-dicarboxylic acid and a method of their preparation. 3,299,076, 1-17-67, Cl. 260—295.

Kramer, Walter E., L. A. Joo, and T. H. Szawlowski, to Union Oil Co. of California. Polyester resin composition. 3,326,860, 6-20-67, Cl. 260—75.

Kramer, Werner, F. Hammerling, and B. Kalkner, to Licentia Patent-Verwaltungs-G.m.b.H. Short-circuit current limiter for coupled power systems. 3,356,901, 12-5-67, Cl. 317—20.

Kramer, William M., to Radio Corp. of America. Low dark current photoconductive device. 3,350,595, 10-31-67, Cl. 313—94.

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Krank, Wolfgang, and E. Schuttloffel, to Telefunken Patentverwertungsgesellschaft m.b.H. Waveguide. 3,309,627, 3-14-67, Cl. 333—21.

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Krantz, Karl W., to General Electric Co. Organopolysiloxanes. 3,318,844, 5-9-67, Cl. 260—46.5.

Krantz, Tibor, D. J. I. Evans, and J. A. H. Lund, to St. Joseph Lead Co. Process for the production of dispersion strengthened lead. 3,320,664, 5-23-67, Cl. 29—420.5.

Krantz, Walter M. Simplified storm door latch. 3,322,452, 5-30-67, Cl. 292—254.

Krantz, Walter M. Push pull door latch mechanism. 3,339,959, 9-5-67, Cl. 292—254.

Kranz, Berthold, to C. Canzler. Method for the treating of honey and the like. 3,297,453, 1-10-67, Cl. 99—146.

Kranz, Joachim, and R. Polster, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polyhalogenated copper phthalocyanines having high color strength and soft grain. 3,353,977, 11-21-67, Cl. 106—288.

Kranz, Walter, to Bolkow Gesellschaft mit beschrankter Haftung. Device for correcting the position of the inner cardan frame of a gyroscope. 3,301,069, 1-31-67, Cl. 74—5.4.

Krapcho, John: *See*—
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Krapcho, John, to E. R. Squibb & Sons, Inc. Novel tropolone derivatives. 3,326,963, 6-20-67, Cl. 260—473.

Krapcho, John, to E. R. Squibb & Sons, Inc. Tricyclic carboxamides. 3,329,717, 7-4-67, Cl. 260—559.

Krapcho, John, to E. R. Squibb and Sons, Inc. Novel benzoxazines, benzothiazines, benzoxazipins and benzothiazepins. 3,341,519, 9-12-67, Cl. 260—239.3.

Krapcho, John, and C. F. Turk, to E. R. Squibb, & Sons. Benzoxazepines. 3,309,361, 3-14-67, Cl. 260—239.3.

Krapcho, John, and C. Turk, to E. R. Squibb & Sons, Inc. Novel 2H-1,5-benyodiazepin-2-ones. 3,321,468, 5-23-67, Cl. 260—239.3.

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Krasinski, Walter F., to Chrysler Corp. Latching and hinging assembly for folding seat. 3,328,077, 6-27-67, Cl. 297—379.

Krasinski, Walter F., V. Kaczmarek, and F. S. Jermain, Jr., to Chrysler Corp. Folding seat assembly. 3,334,941, 8-8-67, Cl. 296—66.

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Krasnick, Bernard, M. S. Simhi, and R. J. Romac, to Honeywell Inc. Analogue phase and frequency synchronizer for data communications. 3,337,747, 8-22-67, Cl. 307—88.5.

Krasnitz, Ronald H., and L. W. Schultz, to Stewart-Warner Corp. Bourdon tube gauges. 3,338,101, 8-29-67, Cl. 73—411.

Krasnoff, Irwin R. Assembly for use in intravenous feeding. 3,318,457, 5-9-67, Cl. 211—74.

Krasnova, Lidia A.: *See*—
Romanchuk, Maria A., Suvorov, Kalinkina, Trostjanskaja, Tevlina, Antonova, Sokolova, Leibelman, Jaroslavtseva, Shchukina, Shagalov, Grinjuk, Nikiforova, Krasnova, Balashova, and Kovylkina. 3,356,695.

Krasnow, Leonard L., M. S. Green, and E. Costello, to Lodding Engineering Corp. Doctor blades having relieved ends. 3,356,067, 12-5-67, Cl. 118—123.

Krasnow, S. Bert, to Precision Circuits, Inc. Multilayer circuit boards with plated through holes. 3,301,939, 1-31-67, Cl. 174—68.5.

Krasnow, Shelley. Fluorescent lighting systems with leading reactive components for maintaining full load voltage equal to the no-load voltage. 3,336,321, 8-8-67, Cl. 315—244.

Kratochvil, Harry, to Tung-Sol Industries, Inc. Sequential flasher. 3,313,981, 4-11-67, Cl. 315—210.

Kratz, David W.: *See*—
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Kratz, Gerd. Dry razor with removable cutting head. 3,332,146, 7-25-67, Cl. 30—43.92.

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Kratzer, James C., and P. Wilton, to Union Carbide Corp. Readily closable and reopenable plastic bag. 3,307,773, 3-7-67, Cl. 229—80.

Kratzer, Reinhold H.: *See*—
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Kratzmeyer, John J., and R. J. Mianowski, to Teletype Corp. Method of making a punch block assemblage. 3,317,407, 5-2-67, Cl. 204—6.

Kratzsch, Walter, Sr. Driving unit for a friction gear and belt drive. 3,306,120, 2-28-67, Cl. 74—207.

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Kraus, Arthur A., Sr., to Electronic Safety Controls, Inc. Load responsive ungrounded electrical distribution system. 3,344,313, 9-26-67, Cl. 317—18.

Kraus, Charles E., to Excelermatic, Inc. Toroidal-type transmission. 3,299,744, 1-24-67, Cl. 74—720.5.

Kraus, Chauncey J.: *See*—
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Kraus, Franz, to W. Schmidding. Hollow body and method of making the same. 3,334,781, 8-8-67, Cl. 220—64.

Kraus, George, to Curtiss-Wright Corp. Attitude control device for space vehicles. 3,328,963, 7-4-67, Cl. 60—250.

Kraus, Gerard: *See*—
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Kraus, Gerard, to Phillips Petroleum Co. Masticating polybutadiene. 3,324,100, 6-6-67, Cl. 260—94.7.

Kraus, Gerard, and Y. C. Fu, to Phillips Petroleum Co. Production of furnace carbon black having properties approximating those of channel carbon black. 3,301,694, 1-31-67, Cl. 106—307.

Kraus, Gerard, and K. W. Rollmann, to Phillips Petroleum Co. Vulcanization. 3,314,926, 4-18-67, Cl. 260—79.5.

Kraus, Guido: *See*—
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Kraus, Gustav. Case packing apparatus. 3,331,184, 7-18-67, Cl. 53—160.

Kraus, Harold. Combined specific gravity meter and contact goniometer. 3,326,050, 6-20-67, Cl. 73—437.

Kraus, Johan, to North American Philips Co., Inc. Mounting a self-centering bearing. 3,339,989, 9-5-67, Cl. 308—72.

Kraus, John W.: *See*—
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Kraus, Kurt A. Process for separating inorganic anions with hydrous oxide anion exchangers. 3,332,737, 7-25-67, Cl. 23—50.

Kraus, Kurt A., and H. O. Phillips, ⅛ to J. S. Johnson, Jr. Process for removal and/or separation of metals from solutions. 3,317,312, 5-2-67, Cl. 75—108.

Kraus, Kurt A., J. S. Johnson, and A. J. Shor, to United States of America, Atomic Energy Commission. Humic acid as an additive in a process of forming a salt-rejecting membrane. 3,344,928, 10-3-67, Cl. 210—500.

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Kraus, Ludwig, and K. Enke, to Daimler-Benz Aktiengesellschaft. Drive arrangement for vehicle steerable wheels. 3,360,066, 12-26-67, Cl. 180—42.

Kraus, Robert A. and E. J., to Cupples Container Co. Apparatus for molding foamed plastic cups. 3,351,978, 11-14-67, Cl. 18—5.

Kraus, Thaddaus, to Bendix Balzers Vacuum, Inc. Process for mass testing of small, closed, gas filled containers. 3,306,098, 2-28-67, Cl. 73—49.3.

Kraus, Walter J. Adjustable wall sleeve. 3,339,322, 9-5-67, Cl. 52—208.

Kraus, Wilbur H., to Engineering Industries, Inc. Television tube coating apparatus. 3,358,807, 12-19-67, Cl. 198—19.

Krause, Bjorn O. Microscope slide platform using reference wedge for automatic refocusing. 3,359,055, 12-19-67, Cl. 350—92.

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Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber G.m.b.H. Needle actuating mechanism for a knitting machine. 3,301,016, 1-31-67, Cl. 66—154.

Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber G.m.b.H. Knitting machine with electromagnetic needle selection mechanism. 3,340,708, 9-12-67, Cl. 66—76.

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Krause, Frederick O., to Wausau Iron Works. Rotary snow plow. 3,303,588, 2-14-67, Cl. 37—43.

Krause, George M., and F. C. Ninger, to Warner-Lambert Pharmaceutical Co. Tablet structure. 3,336,200, 8-15-67, Cl. 167—82.

Krause, Gerhard, to Fernseh G.m.b.H. Apparatus for increasing the signal-to-noise ratio in a compound signal. 3,305,627, 2-21-67, Cl. 178—5.2.

Krause, Gerhard, to Fernseh G.m.b.H. Clamping circuit arrangement for color television signals. 3,321,574, 5-23-67, Cl. 178—5.4.

Krause, Gerhard, to Fernseh G.m.b.H. Apparatus for increasing the signal-to-noise ratio of a television signal. 3,333,055, 7-25-67, Cl. 178—6.

Krause, Harold E., and H. W. Rasmussen, to K & R Engineering Co., Inc. Device for indicating wheel imbalance. 3,320,814, 5-23-67, Cl. 73—484.

Krause, Henry M., Jr.: *See*—
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Krause, Ira J. Honeycomb device for exterior extraction of honey. 3,303,519, 2-14-67, Cl. 6—2.

Krause, Norman R. Humidifier. 3,314,412, 4-18-67, Cl. 126—113.

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Krause, Peter K. H., and A. Langner, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Transloading device. 3,314,525, 4-18-67, Cl. 198—36.

Krause, Stephen R., to K & M Electronics Co. Inventory interrogating control and read-out system and apparatus. 3,340,509, 9-5-67, Cl. 340—149.

Krause, Stephen R., to K & M Electronics Co. Apparatus for photo-electrically scanning and counting physical inventory. 3,348,030, 10-17-67, Cl. 235—92.

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Krauskopf, William B., to Union Tank Car Co. Method of manufacturing an insulated container. 3,313,020, 4-11-67, Cl. 29—455.

Krauss, Heinz, to Daimler-Benz Aktiengesellschaft. Bearing. 3,331,642, 7-18-67, Cl. 308—36.1.

Krauss, John, Inc.: *See*—
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Krauss, Lutz, and W. W. Schroeder, to South African Inventions Development Corp. Spectro-chemical analysis apparatus supplying substantially the same energy to the gap for all waveforms. 3,356,895, 12-5-67, Cl. 315—199.

Krauss, Otto, and H. Pobel, to M. Grundig. Drive cam arrangement for type actions. 3,332,526, 7-25-67, Cl. 197—17.

Krauss, Otto, H. Decker, M. Link, and W. Stuiber, to Triumph Werke Nuremberg A.G. Escapement mechanism for typewriters. 3,358,806, 12-19-67, Cl. 197—84.

Krauss, Paul: *See*—
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Krauss, Walter, and R. Hebermehl, to Farbenfabriken Bayer Aktiengesellschaft. Pigmented polysiloxane surface coating compositions for glossy coatings of increased thermal stability. 3,347,816, 10-17-67, Cl. 260—37.

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Krauss, William H.: *See*—
Daggett, Myron L., and Krauss. 3,337,767.

Krausz, Robert, to United States of America, Navy. Transistor locked frequency divider circuit. 3,303,358, 2-7-67, Cl. 307—88.5.

Krausz, Robert, to United States of America, Navy. Subminiature crystal oscillator of high stability. 3,303,436, 2-7-67, Cl. 331—116.

Kraut, Herman G., to The Stanley Works. Method of packaging. 3,299,604, 1-24-67, Cl. 53—22.

Kraut, Herman G., to The Stanley Works. Method and apparatus for packaging. 3,315,434, 4-25-67, Cl. 53—22.

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Borden, Jay R., Gasser, and Krauthamer. 3,351,835.

Krautheim, Edgar H., and V. C. Veverka, to Harbison-Walker Refractories Co. Rotary kiln scraper. 3,298,679, 1-17-67, Cl. 263—33.

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Krautkramer, Herbert. Method of ultrasonically testing irregularly extending welds, or welds having irregular portions, by the pulse echo method. 3,313,146, 4-11-67, Cl. 73—67.8.

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Krautwurst, Homer V., and D. R. Crumb, to General Motors Corp. Cigarette lighter. 3,356,826, 12-5-67, Cl. 219—267.

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Kravitt, Irwin H. Advertising displays. 3,323,240, 6-6-67, Cl. 40—28.

Kravitt, Irwin H. Advertising displays. 3,328,906, 7-4-67, Cl. 40—33.

Kravitz, Harvey. Combination tongue depressor and swab. 3,324,849, 6-13-67, Cl. 128—15.

Kravitz, Harvey. Shaped mattress top for correcting pedal deformities in children. 3,339,544, 9-5-67, Cl. 128—80.

Kravitz, Harvey, ½ to Norman Lettvin. Single stable dose vaccinator. 3,351,059, 11-7-67, Cl. 128—253.

Kravle, Robert C., and W. L. Lewis, to United Shoe Machinery Corp. Explosively actuated tool. 3,330,108, 7-11-67, Cl. 60—26.1.

Kravos, Joseph F., to General Electric Co. Battery-powered clothes brush. 3,316,577, 5-2-67, Cl. 15—23.

Krawinkel, Joseph L., Jr.: *See*—
Ortwig, Thomas B., and Krawinkel. 3,356,799.

Krawczyk, Arthur J.: *See*—
Clark, Charles C., and Krawczyk. 3,333,977.
Clark, Charles C., and Krawczyk. 3,333,978.

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Kray, Raymond J., to Allied Chemical Corp. Polybutene-1 petroleum wax blends. 3,338,855, 8-29-67, Cl. 260—28.5.

Krayer, William L., to Calgon Corp. Force balance computing apparatus. 3,348,771, 10-24-67, Cl. 235—200.

Kraynik, Michael R., and T. J. Rebarchak, to United States Steel Corp. Rapid viscosity testing system. 3,313,145, 4-11-67, Cl. 73—54.

Kreamer, Glenn C. Metallic foil bag. 3,327,926, 6-27-67, Cl. 229—65.

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Krebs, Charles H., to Sunds Verkstader Aktiebolag. Corrugated board bundler. 3,307,326, 3-7-67, Cl. 53—198.

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DeLisle, William E., and Krebs. 3,328,719.

Krebs, David A.: *See*—
Kifor, Harry T., Krebs, and Bartlett. 3,333,797.

Krebs, Hans, to Daimler-Benz Aktiengesellschaft. Vane construction. 3,311,345, 3-28-67, Cl. 253—78.

Krebs, Jimmie M., to Display Corp. Display device. 3,321,905, 5-30-67, Cl. 58—50.

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Kreckl, Alois, to Vereinigte Glanzstoff-Fabriken A.G. Method of manufacturing insulating textile material. 3,323,959, 6-6-67, Cl. 156—155.

Kreevoy, Maurice M., and K. E. McCaleb, to General Mills, Inc. Recovery of uranium and molybdenum values using certain difatty hydroxyalkyl amines. 3,341,305, 9-12-67, Cl. 23—340.

Krefft, Hermann E., to International Telephone and Telegraph Corp. High voltage gas discharge tube having a plurality of grids spaced apart along a ceramic envelope. 3,349,283, 10-24-67, Cl. 315—168.

Kreger, Fred W., to Sash Controls, Inc. Sliding closure construction. 3,304,658, 2-21-67, Cl. 49—425.

Krehbiel, Vivian D. Flexible material transport mechanism. 3,345,928, 10-10-67, Cl. 95—94.

Kreibaum, Otto. Self-supporting light constructional elements for ceilings, roofs and walls. 3,307,312, 3-7-67, Cl. 52—303.

Kreibaum, Otto. Clamping device for piles of boards and particularly piles of lumber to be dried. 3,337,174, 8-22-67, Cl. 248—361.

Kreibich, Roland E., W. C. Grendon, D. M. Roe, R. E. Ortengren, and K. D. Gehr, to Weyerhaeuser Co. Process of making thermosetting molding compositions containing alkali-extracted tree bark fiber. 3,328,322, 6-27-67, Cl. 260—17.2.

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Kreidel, Hans, Sr., and H. Kreidel, Jr., to Inventex Ltd., (formerly Inventex A.G.). Ball bearing swivel pipe joint or coupling. 3,339,946, 9-5-67, Cl. 285—272.

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Kreider, Peter A. Portable pre-cast fireplace. 3,339,540, 9-5-67, Cl. 126—121.

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Kreier, George J., Jr. Lining for lightweight fiberglass reinforced polyester resin mold. 3,317,178, 5-2-67, Cl. 249—134.
Kreighbaum, William E., to Mead Johnson & Co. 5,5-dioxodibenzo [1,2,5]thiadiazepines and process. 3,322,789, 5-30-67, Cl. 260—327.
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Kreiselmaier, Kurt W., to Texas Instruments Inc. Porous reaction medium and methods of making same. 3,323,951, 6-6-67, Cl. 136—120.
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Krejci, Joseph C., to Phillips Petroleum Co. Production of carbon black. 3,307,911, 3-7-67, Cl. 23—209.4.
Krejci, Joseph C., and M. B. Howard, to Phillips Petroleum Co. Production of high structure furnace carbon black. 3,355,247, 11-28-67, Cl. 23—209.4.
Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Cutter bits and mounting means therefor. 3,331,637, 7-18-67, Cl. 299—92.
Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Renewable cutting arms and wheels for mining machines. 3,338,634, 8-29-67, Cl. 299—90.
Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Cutting wheels for mining machines and the like with replaceable cutter bearing rims. 3,342,530, 9-19-67, Cl. 299—89.
Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Conical cutter bits held by resilient retainer for free rotation. 3,342,531, 9-19-67, Cl. 299—92.
Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Cutting tool comprising holder freely rotatable in socket with bit frictionally attached. 3,342,532, 9-19-67, Cl. 299—92.
Krekovich, James J., to Hallmark Cards, Inc. Honeycomb novelty device. 3,340,133, 9-5-67, Cl. 161—14.
Krell, Alfred, to IMC Magnetics, Corp. Machine frame for an electric motor. 3,310,698, 3-21-67, Cl. 310—258.
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Kremp, Rudolf, P. Frost, and F. Hennig, to Agfa Aktiengesellschaft. Structure for adjusting a camera according to characteristics of film exposed therein. 3,309,975, 3-21-67, Cl. 95—10.
Kremp, Rudolf, and G. Kiper, to Agfa Aktiengesellschaft. Light controlled shutter. 3,314,346, 4-18-67, Cl. 95—10.
Kremp, Rudolf, and G. Kiper, to Agfa Aktiengesellschaft. Camera shutters. 3,314,347, 4-18-67, Cl. 95—10.
Krenke, Norman O., to Baker Perkins Inc. Fluid conveying system. 3,297,367, 1-10-67, Cl. 302—42.
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Kress, Ralph H., R. E. Guhl, and J. G. Klecker, to Caterpillar Tractor Co. Hydraulic steering of forward and rear vehicle wheels. 3,323,610, 6-6-67, Cl. 180—79.2.
Kress, Ralph H., and J. C. Medley, to Caterpillar Tractor Co. Suspension system for heavy vehicles. 3,330,578, 7-11-67, Cl 280—423.
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Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Keyed oscillator circuit. 3,360,745, 12-26-67, Cl. 332—12.
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Kreuger, Carl H., to A. H. Voss Co. Drainage stopper. 3,307,206. 3-7-67, Cl. 4—199.
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Kreuter, Kenneth G., to Robertshaw Controls Co. Combination bimetal thermal switch mounted in between a rod and tube thermal responsive device. 3,320,388, 5-16-67, Cl. 200—137.
Kreuter, Kenneth G., to Robertshaw Controls Co. Air drying means. 3,324,631, 6-13-67, Cl. 55—163.
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Krezanoski, Joseph Z., to Barnes-Hind Pharmaceuticals, Inc. Ophthalmic composition containing an anesthetic and fluorescein sodium. 3,306,820, 2-28-67, Cl. 167—59.
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Kriadis, Nickolas, and T. J. Wright, to Bel-Tronics Corp. Antenna mounting member. 3,302,916, 2-7-67, Cl. 248—314.
Krickler, Frank, to Pressurized Track Pins, Inc. Pressure lubrication means for crawler tractor chain. 3,336,089, 8-15-67, Cl. 305—11.
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Krieger, Alex, to Societe de la Viscose Suisse. Stabilized poly (omega-amino carboxylic acid) compositions containing copper and a dicarboxylic acid diamide. 3,298,994, 1-17-67, Cl. 260—45.75.
Krieger, Alex, to Societe de la Viscose Suisse. Stabilized polyamide compositions containing a copper compound and a lead compound. 3,340,227, 9-5-67, Cl. 260—45.75.
Krieger, Alvin W., and T. J. Schimmels., to Cutler-Hammer, Inc. Electric switches. 3,308,260, 3-7-67, Cl. 200—168.
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Krimm, Heinrich, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Process for preparing 2-(4-hydroxyphenyl)-2-(4'-aminophenyl)-methanes. 3,311,660, 3-28-67, Cl. 260—570.
Krimm, Heinrich, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of alkenylanilines. 3,359,317, 12-19-67, Cl. 260—577.
Krimmel, Carl P., to G. D. Searle & Co. Pyridinecarboxylic acid derivatives of 3-azabicyclo[3.2.2]nonane. 3,309,372, 3-14-67, Cl. 260—295.
Krimmel, Carl P., to G. D. Searle & Co. Pyridinecarboxylic acid esters of cyclobutanediols. 3,321,484, 5-23-67, Cl. 260—295.5.
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Kristal, Joseph, deceased (by R. Kristal, administratrix), E. D. Crane, and B. Werbel, to United States of America, Army. Granulating process for pyrotechnics containing organic dyes and vinyl resins. 3,338,763, 8-29-67, Cl. 149—19.
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Kritzer, Richard W., to Peerless of America, Inc. Heat exchanger and defroster therefor. 3,343,596, 9-26-67, Cl. 165—67.
Kritzer, Richard W., to Peerless of America, Inc. Heat exchanger elements. 3,360,040, 12-26-67, Cl. 165—181.
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Krock, Richard H., to P. R. Mallory & Co., Inc. Tungsten-ruthenium alloy and powder-metallurgical method of making. 3,301,641, 1-31-67, Cl. 29—182.
Krock, Richard H., and E. J. Zdanuk, to P. R. Mallory Co. Inc. Tungsten powder bodies infiltrated with copper-titanium bismuth or copper-titanium-tin. 3,305,324, 2-21-67, Cl. 29—182.1.
Krock, Richard H., and E. J. Zdanuk, to P. R. Mallory & Co., Inc. Method of producing a porous tungsten structure with an impervious skin. 3,318,696, 5-9-67, Cl. 75—208.
Krock, Richard H., and E. J. Zdanuk, to P. R. Mallory & Co., Inc. Method of producing a porous tungsten structure with an impervious skin. 3,320,058, 5-16-67, Cl. 75—208.
Krock, Richard H., E. I. Larsen, and C. R. Jones, to P. R. Mallory & Co., Inc. Beryllium-aluminum-silver composite. 3,322,512, 5-30-67, Cl. 29—182.2.
Krock, Richard H., C. R. Jones, and E. I. Larsen, to P. R. Mallory & Co., Inc. Beryllium-silver-copper composite. 3,322,514, 5-30-67, Cl. 29—182.2.
Krock, Richard H., E. I. Larsen, and C. R. Jones, to P. R. Mallory & Co., Inc. Beryllium-aluminum-magnesium composite. 3,323,880, 6-6-67, Cl. 29—182.2.
Krock, Richard H., R. H. Kelsey, H. R. Camenzind, and G. Wallis, to P. R. Mallory & Co., Inc. Micro-tensile testing machine. 3,324,713, 6-13-67, Cl. 73—95.
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Kroell, Charles K., and R. E. Siegrist, to General Motors Corp. Energy absorbing device. 3,339,674, 9-5-67, Cl. 188—1.
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Krofta, Milos. Arrangement for supplying air under pressure to waste water, more particularly in the paper and cellulose industry, for subsequent purification by flotation. 3,352,420, 11-14-67, Cl. 210—205.
Krofta, Milos. Apparatus for producing webs of fibrous materials, in particular of paper and cardboard webs. 3,352,748, 11-14-67, Cl. 162—318.
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Krokos, Raymond M., to Evans Products Co. Freight bracing apparatus. 3,314,379, 4-18-67, Cl. 105—369.
Krokos, Raymond M., to Evans Products Co. Cargo bracing device. 3,333,553, 8-1-67, Cl. 105—369.
Krol, Anthony J., to Callery Chemical Co. Epoxy foams prepared by the reaction of a polyepoxide with a boroxine and an amine borane. 3,355,306, 11-28-67, Cl. 106—122.

Krol, Arthur J., to Dow Corning Corp. Denture retainer. 3,354,547, 11–28–67, Cl. 32—3.

Krol, Arthur J., to Dow Corning Corp. Device for use in prosthetic dentistry. 3,357,105, 12–12–67, Cl. 32—40.

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Kroll, Harry, A. R. Therrien, Jr. and P. W. Bennett, to Philip A. Hunt Chemical Corp. Silver antitarnish compositions. 3,330,672, 7–11–67, Cl. 106—3.

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Kroll, Wolf R., to Continental Oil Co. Preparation of dialkylaluminum aralkoxide by decomposition of etherates. 3,313,-836, 4–11–67, Cl. 260—448.

Kroll, Wolf R., and K. Zosel, to K. Ziegler. Process for the production of complex aluminum alkyl compounds and, if desired, the recovery of higher alpha olefins therefrom. 3,317,570, 5–2–67, Cl. 260—349.

Kroll, Wolfram R., to Esso Research and Engineering Co. Process for producing a finely divided transition metal. 3,323,902, 6–6–67, Cl. 75—.5.

Kroll, Wolfram R., and A. Malatesta, to Esso Research and Engineering Co. Production of polymers of epoxide compounds using catalytic product of group VIII metal carbonyl with an alkyl aluminum compound. 3,304,269, 2–14–67, Cl. 260—2.

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Kronauer, Richard E.: *See*—
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Krone, Howard C., to William A. Knapp Co. Vent control device. 3,304,952, 2–21–67, Cl. 137—493.9.

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Kronenberg, Marvin L., to Union Carbide Corp. Production of catalyzed carbon electrode. 3,316,124, 4–25–67, Cl. 117—227.

Kronenberger, Kurt. Hall probe for measuring the intensity of a changing magnetic field in a mass spectrometer. 3,342,-991, 9–19–67, Cl. 250—41.9.

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Kronig, Walter, W. Swodenk, M. Quaedvlieg, W. Schwerdtel, and G. Boehmke, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of tertiary butanol. 3,328,471, 6–27–67, Cl. 260—641.

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Kronsbein, Curt, to Maschinenfabrik Eugen Bellmann G.m.b.H. Device for pulling off stockings from forms and depositing them. 3,353,726, 11–21–67, Cl. 223—112.

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Kroon, James L., and R. A. Davis, to The Dow Chemical Co. Propellant comprising a perfluoroguanidine containing oxidant and a fuel. 3,354,011, 11–21–67, Cl. 149—22.

Krooss, Robert J., and R. F. Novak, to Simautics, Inc. Paperboard package. 3,298,513, 1–17–67, Cl. 206—65.

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Kropiwnicki, Tadek M., to Carrier Corp. Compressor manifold seal. 3,315,880, 4–25–67, Cl. 230—58.

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Kropp, Paul J., to The Procter & Gamble Co. Irradiation of cross-conjugated cyclohexadienones. 3,350,289, 10–31–67, Cl. 204—158.

Kropp, Willis A. Dispensing device. 3,326,418, 6–20–67, Cl. 222—70.

Krossa, Kenneth D., and W. Lin, to Burroughs Corp. Gain setting switching circuit responsive to automatically emitted digital levels. 3,327,236, 6–20–67, Cl. 330—28.

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Krøyer, Karl K. K. Methods of raising sunken or stranded vessels. 3,332,385, 7–25–67, Cl. 114—50.

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Krucoff, Darwin. Digital to log-analog converter. 3,303,489. 2–7–67, Cl. 340—347.

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Krueger, Grant E., H. F. Mohr, and O. C. Huber, Jr., to National Dairy Products Corp. Cheese manufacturing apparatus. 3,355,805, 12–5–67, Cl. 31—46.

Krueger, John W., to The Frederick Post Co. Halogenated phloroglucinol carboxylic acid. 3,331,869, 7–18–67, Cl. 260—521.

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Krug, Albert E., to Becton, Dickinson and Co. Indexable rotating joint for stethoscope. 3,316,998, 5–2–67, Cl. 181—24.

Krug, George A., Jr., and T. P. Curtis, to General Electric Co. Magnetically shielded structure with adjustable cover member supporting a magnetron. 3,325,678, 6–13–67, Cl. 315—39.71.

Krug, Marianne: *See*—
Krug, Siegfried and M., and Kosch. 3,301,146.

Krug, Newton J.: *See*—
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Krug, Newton J., C. D. Graber, and L. J. Grosswiller, Jr., to Diebold, Inc. Automatic ejector power filing appliance. 3,297,378, 1–10–67, Cl. 312—223.

Krug, Newton J., and G. R. Bechtel, to Diebold, Inc. Sound system for banking service equipment. 3,301,956, 1–31–67, Cl. 179—1.

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Kruger, Alfred, to International Copying Machines Co. m.b.H. Drier particularly for photographic sheet material. 3,308,-555, 3–14–67, Cl. 34—155.

Kruger, Bodo, to Martin-Marietta Corp. Regulated power supply with high speed transient response. 3,320,512, 5–16–67, Cl. 321—10.

Kruger, Gunther, to American Home Products Corp. Process for the preparation of equilin and intermediates obtained therefrom. 3,325,519, 6–13–67, Cl. 260—397.4.

Kruger, Gunther, to American Home Products Corp. 5(10),7-estradiene-3,17-dione and the process for the production thereof. 3,340,278, 9–5–67, Cl. 260—397.3.

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Kruger, Herbert A., to Kimball Systems Ltd. Patching means for restoring punched card field. 3,346,440, 10–10–67, Cl. 156—583.

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Kruger, Michael H., to Smithcraft Corp. Glare-free office lighting device and the like. 3,349,238, 10–24–67, Cl. 240—9.5.

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Kruger, Wolfgang, to Siemens & Halske Aktiengesellschaft. Sender antenna enveloped by a tubular carrier mast. 3,305,871, 2–21–67, Cl. 343—872.

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Kruis, August, and H. Manhard, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Process and apparatus for separating and hydrogenating gas mixtures. 3,360,588, 12–26–67, Cl. 260—683.9.

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Krumholz, Alfred F., Sr., to Chicago Boiler Co. Grinding apparatus. 3,352,501, 11–14–67, Cl. 241—74.

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Krumm, Stephen, to Union Carbide Corp. Sound record comprising vinyl halide resin, group II metal tallate and hydrogen halide acceptor. 3,351,577, 11–7–67, Cl. 260—23.

Krump, Robert C., and D. W. Donnelly, to Emerson Electric Co. Burner control system. 3,335,781, 8–15–67, Cl. 158—28.

Kruper, Andrew P., to Westinghouse Electric Corp. Power transistor. 3,325,706, 6–13–67, Cl. 317—235.

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Krusius, Ewald H., and R. R. Keast, to FMC Corp. Cleansing tablets. 3,338,836, 8–29–67, Cl. 252—99.

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Kryzer, Benjamin H., and R. R. Reid, to Union Tank Car Co. Water conditioning system. 3,325,012, 6–13–67, Cl. 210—126.

Kryzer, Benjamin H., T. J. Schoenecker, and K. J. Burkhardt, to Union Tank Car Co. Water conditioning system. 3,354,-907, 11–28–67, Cl. 137—599.1.

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Krzyzanowski, Erich M., and H. Schweikert, to Full Mold Process, Inc. Cavityless casting pattern and method of making same. 3,339,620, 9–5–67, Cl. 164—24.

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Kubera, Gerhard, to Teves-Thompson & Co., G.m.b.H. Method of making a valve member for internal combustion engines. 3,358,350, 12–19–67, Cl. 29—156.7.

Kubicek, William G., E. Kinnen, R. P. Patterson, and D. A. Witsoe, to Regents of the University of Minnesota. Impedance plethysmograph. 3,340,867, 9–12–67, Cl. 128—2.05.

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Kubislak, Val V. Window regulator. 3,330,071, 7–11–67, Cl. 49—362.

Kubit, Ted J., and W. S. Stanton. Automatically-inflating life preserver. 3,350,730, 11–7–67, Cl. 9—317.

Kubit, Theofile T. Flush tank toilet. 3,336,602, 8–22–67, Cl. 4—97.

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Kurz, Fredrik W. A., and S. Wikne. Method of preparing a gel product containing air bubbles and the use thereof. 3,334,052, 8-1-67, Cl. 252—316.

Kurz, John C., to Air Balance, Inc. Damper frame. 3,327,766, 6-27-67, Cl. 160—381.

Kurz, Milton. Garment dryer. 3,307,712, 3-7-67, Cl. 211—177.

Kurz, Otto: *See*—
Dangelmaier Karl, Griesinger, Kurz, Schneider, and Scholl. 3,353,822.

Kurz, Philip F.: *See*—
Byrne, John F., and Kurz. 3,357,989.

Kurz, Rudolf, deceased (by H. Kurz, legal guardian of minor heir), W. Neubert, and H. Lechler; said Neubert and said Lechler assors. to Rudolf Kurz, minor. Adjustable joint. 3,352,580, 11-14-67, Cl. 287—14.

Kurz, Ulrich: *See*—
Cremer, Lothar, Kurz, and Hubert. 3,353,626.

Kurz, Wilhelm, to Siemens & Halske Aktiengesellschaft. Connection layout for secondary telephone installation having converter means. 3,329,775, 7-4-67, Cl. 179—18.

Kurzawa, Frank C.: *See*—
Kautz, Robert A., Kurzawa, and Williams. 3,314,642.

Kurzhals, Peter R., and R. W. Will, to United States of America, National Aeronautics and Space Administration. Attitude control and damping system for spacecraft. 3,329,375, 7-4-67, Cl. 244—1.

Kurzinski, Edward F., to Air Products and Chemicals, Inc. Production of chromium steels. 3,323,907, 6-6-67, Cl. 75—60.

Kurzinski, Edward F., and E. J. Kelly, to Air Products and Chemicals, Inc. Production of frozen foodstuffs. 3,360,384, 12-26-67, Cl. 99—192.

Kus, Rudolf, to Westfalia Dinnendahl Groppel Aktiengesellschaft. Journalling structure for rotatable processing drums such as rotary kilns, tube mills. 3,308,657, 3-14-67, Cl. 73—140.

Kus, Rudolf, and H. Jager, to Wedag Westfalia Dinnedahl Groppel Aktiengesellschaft. Apparatus for the preheating of raw cement material. 3,298,110, 1-17-67, Cl. 34—57.

Kusai, Kiyoshi: *See*—
Matsuda, Osaharu, Kusai, Tsukamoto, and Komaki. 3,297,480.

Kusaka, Kazuji. Nodular graphite cast iron containing calcium and magnesium. 3,309,197, 3-14-67, Cl. 75—130.

Kusaka, Takeshi: *See*—
Nishigaki, Susumu, Kusaka, and Sato. 3,350,285.
Nishigaki, Susumu, Nakamura, Kusaka, and Yano. 3,342,710.

Kusakabe, Takeshi, to Toyota Koki Kabushiki Kaisha. Automatic converter for the accuracy of rotation. 3,313,581, 4-11-67, Cl. 308—189.

Kusan, Inc.: *See*—
Denny, Carl B. 3,311,997.

Kusashio, Koji: *See*—
Yoshikawa, Masaharu, Kusashio, Kato, and Takenishi. 3,347,846.

Kusch, Bernard J., J. P. Spridco, and D. W. Turner, to General Motors Corp. Position and rate readout system with dual phase-displaced gratings. 3,360,660, 12-26-67, Cl. 250—237.

Kusel, Edward J., and R. S. Mankin, to Locke Mfg. Co. Adjustable wrought iron railing. 3,339,895, 9-5-67, Cl. 256—22.

Kusel, Edward J., and R. S. Mankin. Heavy duty adjustable railing. 3,343,811, 9-26-67, Cl. 256—22.

Kushner, David, and C. A. Listl, to Kollsman Instrument Corp. Solid state switch. 3,339,104, 8-29-67, Cl. 315—55.

Kushnir, Bud W.: *See*—
Fraser, Robert W. S., and Kushnir. 3,318,986.

Kuskevics, Guntis, and C. W. Scott, to Electro-Optical Systems, Inc. Flanged pipe coupling having metallic seal means. 3,317,224, 5-2-67, Cl. 285—363.

Kusko, Alexander, to Basic Products Corp. Magnetic amplifier voltage regulator system. 3,323,039, 5-30-67, Cl. 323—45.

Kusko, Alexander, to Ametek, Inc. Static magnetic frequency tripler. 3,343,054, 9-19-67, Cl. 318—229.

Kusnick, Arthur A.: *See*—
Brenza, James G., Crawford, Kusnick, and La Maire. 3,333,251.

Kusnick, Arthur A., and W. G. Spruth, to International Business Machines Corp. Data storage system. 3,350,694, 10-31-67, Cl. 340—172.5.

Kuss, R. L., & Co., Inc.: *See*—
Campbell, Robert H. 3,350,747.
Youngs, Wilbur R. 3,306,344.

Kuss, Richard J., and R. S. Hayes, to Carrier Corp. Evaporative condenser. 3,313,120, 4-11-67, Cl. 62—188.

Kusserow, Bernd, to Loewe Opta Aktiengesellschaft. D.C. motor with centrifugal switch. 3,311,804, 3-28-67, Cl. 318—325.

Kusserow, Howard F., to Denver Plastics, Inc. Closure. 3,357,592, 12-12-67, Cl. 220—27.

Kussman, Joan V. Rosary guide. 3,319,599, 5-16-67, Cl. 116—133.

Kussmaul, Edwin E., to Kelek Co. Plunger actuated switch. 3,354,731, 11-28-67, Cl. 74—55.

Kussy, Frank W.: *See*—
Cataldo, John B., Kralik, Kussy, and Thomas. 3,349,208.
Hermann, John A., Kussy, Frede, and Di Marco. 3,334,319.

Kussy, Frank W., to I-T-E Circuit Breaker Co. Electro-magnet. 3,324,356, 6-6-67, Cl. 317—155.5.

Kussy, Frank W., to I-T-E Circuit Breaker Co. Electro-magnet. 3,330 994, 7-11-67, Cl. 317—123.

Kussy, Frank W., G. H. Farnsworth, and R. W. Thomas, to I-T-E Circuit Breaker Co. Electrical control center. 3,311,793, 3-28-67, Cl. 317—120.

Kuster, Otto R., to The Lummus Co. Recovery of sulfur precipitate from a hydrocarbon solvent by extraction with a cold immiscible fluid. 3,337,307, 8-22-67, Cl. 23—312.

Kuster, Robert C.: *See*—
Reynolds, Kenneth E., and Kuster. 3,327,899.

Kuster, William, to Eagle-Ottawa Leather Co. Method of preparing dry free flowing food supplement containing hydrated di-calcium phosphate. 3,301,681, 1-31-67, Cl. 99—7.

Kusters, Eduard, and V. Appenzeller, to Eduard Kusters Maschinenfabrik. Roll for the pressure treatment of web material especially paper. Re. 26,219, 6-6-67, Cl. 100—170.

Kusters, Eduard, and K. Quoos. Apparatus for stretching tubular articles. 3,334,391, 8-8-67, Cl. 26—55.

Kusters, Eduard, and K. Quoos; said Quoos assor. to said Kusters. Calender roll for pressure treating materials. 3,345,937, 10-10-67, Cl. 100—155.

Kusters, Eduard, Maschinenfabrik: *See*—
Kusters, Eduard, and Appenzeller. Re. 26,219.

Kusters, Wilhelm: *See*—
Seewald, Friedrich, and Siencnik. 3,328,956.

Kusters, Willy: *See*—
Schoeps, Karl, and Kusters. 3,332,010.

Kutch, Ernest L.: *See*—
Osborn, Stephen W., Wells, and Kutch. 3,359,248.

Kutch, Ernest L., S. W. Osborn, and T. F. Wells III, to Thiokol Chemical Corp. Cadmium salt catalytic process. 3,337,513, 8-22-67, Cl. 260—79.7.

Kutchera, Don H., and R. M. Eiss, to Kimberly-Clark Corp. Papermaking machine. 3,299,531, 1-24-67, Cl. 34—125.

Kuteinikov, Vasily K.: *See*—
Rogov, Anatoly J., Lovtsov, and Kuteinikov. 3,357,312.

Kuth, Gerhard: *See*—
Breuers, Wilhelm, Kuth, Bock, and Tilk. 3,310,541.

Kutik, Louis F., ½ to E. W. Gronemeyer. Apparatus for injection molding a bristled product. 3,357,058, 12–12–67, Cl. 18—42.

Kutina, Francis E. Metal separating apparatus. 3,356,356, 12–5–67, Cl. 266—33.

Kutner, Abraham, to Hercules Inc. Purification of polyolefins employing oil soluble sulfonic acids to render the polymer slurry insensitive to air. 3,338,878, 8–29–67, Cl. 260—94.9.

Kutner, Abraham, to Hercules Inc. Purification of polyolefins employing a phenol to render the polymer slurry insensitive to air. 3,338,879, 8–29–67, Cl. 260—94.9.

Kuts, Mathew, to The B. F. Goodrich Co. Ball winding machine. 3,343,751, 9–26–67, Cl. 242—3.

Kuts, Richard M., and J. L. Rehman, to The Falls Engineering and Machine Co. Circumferential peeling machine with selective thickness cutting adjustment. 3,343,325, 9–26–67, Cl. 82—102.

Kutscher, Horst, and E. Vopel, to Dortmund-Horder Hullenumion Aktiengesellschaft. Additive measuring device for vacuum degasification vessels. 3,345,055, 10–3–67, Cl. 266—34.

Kuttler, Otto, to A. Raymond. Fastener for rotatable device. 3,326,509, 6–20–67, Cl. 248—359.

Kutyla, John: *See*—
Koda, Arthur J., Kutyla, and Marks. 3,359,455.

Kutz, Bernhard: *See*—
Steiner, Fritz, Kutz, and Leichter. 3,320,364.

Kutz, Richard L., to Honeywell Inc. Short circuit protection circuit with means to open normally closed switch connected in series with load. 3,343,037, 9–19–67, Cl. 317—33.

Kutzler, Robert J., to Honeywell, Inc. Force ratio responsive device. 3,312,109, 4–4–67, Cl. 73—407.

Kutzschbach, Dieter: *See*—
Brack, Alfred, and Kutzschbach. 3,347,865.

Kuwabara, Haro: *See*—
Atsukawa, Masumi, Nishimoto, Iwaiya, and Kuwabara. 3,311,449.

Kuwahara, Masayuki. Suction apparatus for medical and other uses. 3,304,888, 2–21–67, Cl. 103—271.

Kuwahara, Sakuro: *See*—
Takayanagi, Umekichi, and Kuwahara. 3,355,195.

Kuwata, Tsutomu, and S. Yoshikawa, to Soda Koryo Kabushiki Kaisha. Electrolytic method for preparing dialkyl dicarboxylates. 3,313,717, 4–11–67, Cl. 204—79.

Kuwata, Tsutomu, S. Yoshikawa, and C. Hara, to Takeda Chemical Industries, Ltd. Process for treating amino acid solution. 3,330,749, 7–11–67, Cl. 204—180.

Kuwata, Tsutomu, Y. Sugahara, and T. Nakazawa, to Mizusawa Kagaku Kogyo Kabushiki Kaisha. Method and apparatus for preparing silica-alumina type spherical hydrogels. 3,330,774, 7–11–67, Cl. 252—359.

Kuypers, Norbert T., to Difco Laboratories, Inc. Article dispensing magazine and a dispenser with removable magazines. 3,300,087, 1–24–67, Cl. 221—93.

Kuypers, Wilhelmus: *See*—
Van Iperen, Bernardus B., and Kuypers. 3,349,349.

Kuyt, Frits: *See*—
Andersen, Peter M., and Kuyt. 3,321,149.

Kuyt, Fritz, to Bausch & Lomb Inc. Process for manufacturing recorder pens or the like. 3,316,631, 5–2–67, Cl. 29—558.

Kuzara, John C. Setting mechanism for menstrual cycle indicator. 3,327,470, 6–27–67, Cl. 58—4.

Kuzel, Norbert R.: *See*—
Coffey, Henry F., and Kuzel. 3,316,854.

Kuziak, Matthew. Electric finger guessing game. 3,345,069, 10–3–67, Cl. 273—1.

Kuzmick, Paul L. Grinding wheel having an antimony or bismuth trioxide bond. 3,317,295, 5–2–67, Cl. 51—308.

Kuzmik, Michael. Abrasive belt skiving apparatus. 3,336,700, 8–22–67, Cl. 51—5.

Kuznetsov, Alexandr A.: *See*—
Zhadaev, Valentin G., Kuznetsov, Morozova, Byderovyskij, Mallovanov, Novikova, Novskij, Forminov, Pruzhiner, Agevnin, and Grishin. 3,305,272.

Kuznetsov, Vasily G., L. I. Tajukin, V. P. Bychkov, V. G. Brodov, and J. N. Ryjrikova. Multiple-shot X-ray thermal vacuum chamber for testing samples over a wide temperature range. 3,337,731, 8–22–67, Cl. 250—51.5.

Kuznetzoff, Philip: *See*—
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Kuzuoka, Tsuneo, S. Kikkawa, and H. Murayama, to Hitachi, Ltd. Apparatus for continuous polycondensation reaction. 3,316,064, 4–25–67, Cl. 23—283.

Kuzusaka, Yoshihiro: *See*—
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Kvalheim, Andrew M. and I. S. Routing and planing apparatus. 3,344,825, 10–3–67, Cl. 144—1.

Kvalheim, Andrew M. and I. S. Routing device. 3,344,827, 10–3–67, Cl. 144—144.

Kvalheim, Andrew M. and I. S. Panel texturing device. 3,353,574, 11–21–67, Cl. 144—2.

Kvalheim, Irwin S.: *See*—
Kvalheim, Andrew M. and I. S. 3,344,825.
Kvalheim, Andrew M. and I. S. 3,344,827.
Kvalheim, Andrew M. and I. S. 3,353,574.

Kvalnes, Donovan E.: *See*—
Burt, James G., and Kvalnes. 3,332,881.

Kvavle, Robert C., to United Shoe Machinery Corp. Method and apparatus for compensating for a change in dimension of a firing pin. 3,296,728, 1–10–67, Cl. 42—1.

Kvenvolden, Keith A.: *See*—
Cooper, James E., and Kvenvolden. 3,305,317.

Kwake, John P. Inflatable structure. 3,353,309, 11–21–67, Cl. 52—2.

Kwantes, Arien: *See*—
Poons, Michel, Van Der Plas, Baijle, and Kwantes. 3,342,891.

Kwartiroff, Alexis A., and M. F. Tchinnis, to Giannini Scientific Corp. Variable equalizer system having a plurality of parallel connected tuned circuits. 3,336,539, 8–15–67, Cl. 333—18.

Kwartiroff, Alexis A., and M. F. Tchinnis, to Giannini Scientific Corp. Two channel variable cable equalizer having passive amplitude equalization means in only one of the channels. 3,336,540, 8–15–67, Cl. 333—28.

Kwiatkowski, Bohdan, to Sterling Drug, Inc. Biodegradable cleaning compound. 3,350,471, 12–26–67, Cl. 252—114.

Kwiatkowski, Rudolph J. Straight board and siding guide cutter. 3,320,982, 5–23–67, Cl. 143—6.

Kwolek, Stephanie L.: *See*—
Hill, Harold W., Kwolek, and Sweeny. 3,349,062.
Hill, Harold W., Jr., Kwolek, and Sweeny. 3,322,728.
Hill, Harold W., Jr., Kwolek, and Sweeny. 3,354,127.
Hill, Harold W., Jr., Kwolek, and Sweeny. 3,354,127.

Kwolek, Stephanie L., to E. I. du Pont de Nemours and Co. Fluorine containing aromatic polycarbonamides. 3,328,352, 6–27–67, Cl. 260—47.

Kyame, George J., and H. R. Copeland, to United States of America, Agriculture. Method and machine for making yarn from staple fiber. 3,295,307, 1–3–67, Cl. 57—58.89.

Kydd, Paul H., to General Electric Co. Combustion process and apparatus. 3,309,866, 3–21–67, Cl. 60—39.2.

Kyker, Glendon D.: *See*—
Reeves, Howard F., Jr., Ingwalson, and Kyker. 3,300,438.
Reeves, Howard F., Jr., Ingwalson, and Kyker. 3,328,336.

Kylander, John C., and W. J. Soule, to United States of America, Air Force. Method of producing electron multiplication utilizing an amplification cycle. 3,310,678, 3–21–67, Cl. 250—207.

Kyle, Harold E., and J. H. Bricker, Jr., to Union Carbide Corp. Continuous two-stage process for the production of epsilon-caprolactam. 3,320,241, 5–16–67, Cl. 260—239.3.

Kyle, James C.: *See*—
Curtis, Gerald R., Kyle, and Robinson. 3,308,412.

Kyle, James C., to Physical Instruments Corp. Method of fabricating a detonation squib. 3,303,737, 2–14–67, Cl. 86—1.

Kyle, Joseph H., to Armstrong Cork Co. Expandable cell conveyor. 3,327,832, 6–27–67, Cl. 198—1.

Kyle, William: *See*—
Howe, Warren B., and Kyle. 3,354,821.

Kylin, Henrik O., to Bardons & Oliver, Inc. Cutting-off lathe with opposed synchronized tool slides. 3,315,550, 4–25–67, Cl. 82—21.

Kyllonen, Allen W., to Westinghouse Air Brake Co. Tread brake unit and slack adjuster therefor. 3,338,355, 8–29–67, Cl. 188—202.

Kynicki, Witold: *See*—
Nesin, Daniel J., Green, and Kynicki. 3,349,702.

Kyoei Kaihatsu Co., Ltd.: *See*—
Yoshioka, Atsushi. 3,357,572.

Kyorin Seiyaku Kabushiki Kaisha: *See*—
Irikura, Tsutomu, Masuzawa, and Nishino. 3,324,128.
Irikura, Tsutomu, Masuzawa, and Nishino. 3,335,135.
Irikura, Tsutomu, Masuzawa, and Nishino. 3,347,860.
Irikura, Tsutomu, Sato, and Abe. 3,299,077.

Kyoto Machinery Co. Ltd.: *See*—
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Fujihashi, Seitaro. 3,318,115.

Kyowa Hakko Kogyo Co., Ltd.: *See*—
Fujimoto, Yasuo. 3,306,900.
Hoshino, Kazuo, Fukaya, and Kato. 3,295,987.
Kinoshita, Shukuo, Mizuhara, and Suzuki. 3,303,101.
Kinoshita, Shukuo, Nakayama, Nara, Sato, and Tanaka. 3,313,710.
Kinoshita, Shukuo, Nakayama, Sato, and Tanaka. 3,296,088.
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Kudo, Shiro, Yada, Yamauchi, and Fukasaku. 3,355,282.
Marumo, Hirofuto, and Saito. 3,360,549.
Matsuda, Iwao, Shiga, Fulukawa, and Kanemitsu. 3,340,069.
Nakayama, Kiyoshi, Sato, and Tanaka. 3,296,089.
Nakayama, Kiyoshi, Sato, and Tanaka. 3,308,036.
Nakayama, Kiyoshi, and Tanaka. 3,328,261.
Nara, Takashi, Misawa, and Komuro. 3,359,177.
Shibasaki, Yasuichi. 3,298,988.
Shiga, Akio, and Furukawa. 3,342,711.
Tanaka, Katsunobu, Kimura, and Yamaguchi. 3,359,178.
Tanaka, Katsunobu, Oshima, and Takayama. 3,335,065.

Kyowa Hakko Kogyo K.K., (Kyowa Fermentation Industry Co., Ltd.): *See*—
Fujimoto, Yasuo, and Mori. 3,313,816.

Kyser, Smith, to Aircraft Specialties, Inc. Piston groove cleaner. 3,323,161, 6–6–67, Cl. 15—104.01.

Kysor Industrial Corp.: *See*—
Harvey, Leon C. 3,313,485.

Kyte, Derek J. Computer for preparation of color separation. 3,324,235, 6–6–67, Cl. 178—5.2.

Kyte, Derek J. Apparatus for modulating the output of photomultiplier tubes. 3,340,481, 9–5–67, Cl. 332—3.

Kyte, John R., to Esso Production Research Co. Additional oil recovery by improved miscible displacement. 3,333,632, 8–1–67, Cl. 166—9.

Kyzer, David D. Suspension for driven multiple axle overland transport vehicle. 3,295,623, 1–3–67, Cl. 180—23.

Kyzer, Sidney T.: *See*—
Fields, James M., and Kyzer. 3,340,459.

L & B Welding Equipment Inc.: *See*—
Janssen, Harvey W. 3,305,663.

L.B.C. Watch Case & Jewelry Co.: *See*—
Campaiola, Michael. 3,339,248.

L. & J. Specialty Corp.: *See*—
Conradt, James C. 3,321,875.

LKB-Produkter Aktiebolag: *See*—
Bergrahm, Bengt G. F. 3,326,790.
Person, Tage H. 3,347,096.

L & L Mfg. Co.: *See*—
Lyon, Gilbert T. 3,346,935.
Southwell, Wyndham F., and Wehrmann. 3,355,165.
Southwell, Wyndham F., and Wehrmann. 3,356,054.

L.M. & L. Corp.: *See*—
Peterson, Arnold G., and Mabie. 3,334,481.

L. T. Mart Co. Ltd., The: *See*—
Parkinson, Graham C. 3,352,547.

LTV Aerospace Corp.: *See*—
Bickley, Thomas F. 3,310,001.
Carpenter, Lewis R., and Makuch. 3,316,803.
Santamaria, Jesse J., and Winborn. 3,299,638.
Sarlls, Edward C., Jr. 3,359,016.
Welch, Albert B. 3,350,776.
Winborn, Byron R. 3,330,500.

LTV Electrosystems, Inc.: *See*—
Bracht, Lloyd J., Devall, and Krause. 3,355,532.
Loposer, Thomas L. 3,353,104.

Laa, Friedrich, and K. Rupp, to North American Philips Co. Inc. Automatic uncoupling apparatus for a recorder/reproducer. 3,355,557, 11–28–67, Cl. 179—100.2.

Laackmann, Louis: *See*—
Frakes, Vernon R. 3,331,158.

Laakso, Oliver A., to Aktiebolaget Kamyr. Washing container. 3,298,209, 1–17–67, Cl. 68—181.

Laakso, Oliver A., to Aktiebolaget Kamyr. Method and arrangement for washing and cooling at the outlet end of a continuous cellulose digester. 3,298,899, 1–17–67, Cl. 162—19.

Laakso, Oliver A., to Aktiebolaget Kamyr. Method and apparatus for the continuous bleaching of cellulosic pulp. 3,298,900, 1–17–67, Cl. 162—17.

Laakso, Perttu V., and J. R. Mellberg, to The Kendall Co. Dietary fluoride and vitamin preparations. 3,306,824, 2–28–67, Cl. 167—81.

Laakso, Thomas M., to Eastman Kodak Co. Process for preparing improved highly polymeric crystalline thermoplastic polyesters. 3,311,578, 3–28–67, Cl. 260—22.

Laakso, Thomas M., and J. J. Saturno, to Eastman Kodak Co. Preparation of linear polyaryl ethers. 3,342,892, 9–19–67, Cl. 260—823.

Laama, Vello: *See*—
Jepson, Ivar, and Laama. 3,308,566.
Ottosen, Frederick O., Mattson, and Laama. 3,298,163.

Laauwen, Johannes B. M.: *See*—
Adema, Eduard H., Laauwen, and Soeterbroek. 3,318,859.
Adema, Eduard H., Laauwen, and Soeterbroek. 3,318,861.

Lab Cages, Inc.: *See*—
Gabriel, George S., and Anderson. 3,358,649.

La Barge, Robert L.: *See*—
Grundmann, Walter E., and La Barge. 3,335,890.

La Barre, Lawrence J., to Hewlett-Packard Co. Mechanical apparatus. 3,327,542, 6–27–67, Cl. 74—10.2.

La Barre, Lawrence J., to Hewlett-Packard Co. Transport apparatus. 3,337,213, 8–22–67, Cl. 271—3.

Labat, Antoine, to Societe Franco-Hispano-Americaine Francispam. Filling arrangement for a liquefied gas lighter. Re. 26,193, 4–18–67, Cl. 141—295.

LaBate, Michael E. Hot top and adjustable wiper strips therefor. 3,318,564, 5–9–67, Cl. 249—197.

Labatt, John Ltd.: *See*—
Halasz, Thomas, and Quittenton. 3,357,837.
Leslelleur, Louis A., and Lucas. 3,310,106.

Labbe, Francis A. M., to The Molins Organisation Ltd. Tobacco-manipulating machines. 3,338,247, 8–29–67, Cl. 131—21.

Labconco: *See*—
Robinson, Richard H. 3,313,720.

La Beaume, Rembert W., and J. R. Faszold, to Foster Bros., Mfg. Co. Sofa bed cushion support. 3,317,929, 5–9–67, Cl. 5—30.

Labecki, Alexandre, to Etablissements Neyrpic. Cleaner for cyclone apex discharge. 3,337,050, 8–22–67, Cl. 209—211.

La Belle Industries, Inc.: *See*—
Coulson, Leonard W., Antos, and Schultze. 3,316,806.
Koch, Milton E. 3,319,074.

La Berne Mfg. Co. Inc.: *See*—
Berne, William E., and Nebera. 3,302,641.

Labino, Dominick, to Johns-Manville Corp. Method and apparatus for generating a high velocity blast. 3,327,503, 6–27–67, Cl. 65—7.

Labofina, S.A.: *See*—
Groslambert, Georges G. 3,352,780.

La Bombard, Leon E., deceased (by M. I. La Bombard and Indian Head National Bank, co-executor). Sheet feeding apparatus with vibrating feed and angular sheet path. 3,334,890, 8–8–67, Cl. 271—4.

La Bombard, Mary I.: *See*—
La Bombard, Leon E. 3,334,890.

Labombarde, Raymond A., and E. J. Dewhurst, to The International Paper Box Machine Co. Pattern coating apparatus. 3,313,270, 4–11–67, Cl. 118—249.

Laboratoire Choay: *See*—
Choay, Jean, Thely, and Vairel. 3,306,823.

Laboratoires Dalic: *See*—
Ixi, Jean J. G. 3,309,291.

Laboratoires d'Electronique et de Physique Appliquees: *See*—
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Evrard, Robert. 3,357,254.

Laboratoires Laroche Navarron: *See*—
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Mentzer, Charles. 3,335,056.

Laboratoires Om Societe Anonnyme: *See*—
Subirana, Antonio E. 3,351,526.
Subirana, Antonio E. 3,354,201.

Laboratoires Paul Metadier Societe Anonyme: *See*—
Metadier, Paul, and Voisin. 3,297,528.

Laboratoires Toraude: *See*—
Delarue, Jean-Louis, and Fallard. 3,303,207.
Delarue, Jean-Louis, and Fellion. 3,312,712.

Laboratorio Bioterapico Milanese Selvi & C.S.a.s.: *See*—
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Laing, Nikolaus. Portable hair dryers. 3,308,268, 3-7-67, Cl. 219—370.

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Lambers, Kenneth D. Fabric clasp, hose supporter, garter and the like having hook and aperture clasping means. 3,346,928, 10-17-67, Cl. 24—246.

Lambert, Albert N., and B. B. Williams, to Texas Instruments Inc. Low voltage semi-conductor reference diode. 3,341,750, 9-12-67, Cl. 317—234.

Lambert, Alfred, to Lambert Frame and Picture Co., Inc. Clamps for picture frames. 3,345,715, 10-10-67, Cl. 24—259.

Lambert, Bernard A., to McKenzie & Brown Ltd. Vibratory apparatus. 3,301,385, 1-31-67, Cl. 198—220.

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Lambert, Chandley W. Vacuum clothes dryer. 3,308,553, 3-14-67, Cl. 34—92.

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Lambert, Milton. Retractable high expansion from discharge nozzle with selectively closeable side and end openings. 3,316,972, 5-2-67, Cl. 169—15.

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Lambert, Robert D., to Symington Wayne Corp. Power-operated loading ramp. 3,308,497, 3-14-67, Cl. 14—71.

Lambert, Robert L., and W. R. McKeirnan, to Sylvania Electric Products Inc. Storage battery electrode of sintered metal particles. 3,314,821, 4-18-67, Cl. 136—6.

Lambert, Robert L., and W. R. McKeirnan, to Sylvania Electric Products, Inc. Double cast porous electrode. 3,323,915, 6-6-67, Cl. 75—201.

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Lambert, Warren G. Automotive speed zone control system. 3,353,619. 11-21-67, Cl. 180—98.

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Lamberti, Vincent, to Lever Bros. Co. Process for preparing detergent compositions. 3,328,305, 6-27-67, Cl. 252—89.

Lamberti, Vincent, to Lever Bros. Co. Method for the preparation of glycerol alpha ethers and thio ethers. 3,350,460, 10-31-67, Cl. 260—609.

Lamberton, Bruce A., to Construction Techniques, Inc. Method of forming piles. 3,309,878 3-21-67, Cl. 61—53.62.

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Lambertson, William A., to Perey Mfg. Co., Inc. Wide armed turnstile roto. 3,318,046, 5-9-67, Cl. 49—42.

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Lambie, Alan J., G. T. Newbold, and M. B. Purdew, to Fisons Pest Control Ltd. 2-Nitro-3,4,5,6-tetrachloro-N-allphetricanilines. 3,332,998, 7-25-67, Cl. 260—573.

Lambie, Howard R., to Colt Ventilation & Heating Ltd. Ventilators. 3,334,569, 8-8-67, Cl. 98—116.

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Lambie, Howard R., and R. A. F. Burtenshaw, to Colt Ventilation and Heating Ltd. Powered extract ventilator. 3,324,784, 6-13-67, Cl. 98—43.

Lambiotte, Joseph C., to International Business Machines Corp. Pneumatic actuator for keyboard operated machine. 3,327,827, 6-27-67, Cl. 197—19.

Lambrech, Joseph A., deceased, by V. G. Lambrech, executrix, to Union Carbide Corp. Method of killing insects with 5,6,7,8-tetrahydro-1-naphthyl-N-methyl carbamate. 3,341,404, 9-12-67, Cl. 167—30.

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Lambrecht, Josef, and F. Eglseer, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Waste gas main for electric furnaces, particularly arc furnaces. 3,358,978, 12-19-67, Cl. 263—33.

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Lambros, George W., to Lockheed Aircraft Corp. Fluid-dynamic balancing mechanism for hinged structures. 3,323,760, 6-6-67, Cl. 244—90.

Lamburn, Alan S., R. L. Abbott, and J. R. Hillman, to Axel Wickman Transmissions Ltd. Fluid pressure circuit. 3,334,530, 8-8-67, Cl. 74—781.

Lamburn, Alan S., and R. L. Abbott, to Axel Wickman Transmissions Ltd. Power transmission system. 3,350,960, 11-7-67, Cl. 74—701.

Lambuth, Alan L., to Monsanto Co. Method of preparing dry water-soluble animal blood. 3,324,103, 6-6-67, Cl. 260—112.

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La Mers, Herbert, and M. W. Wayne, to California Car Wash Systems, Inc. Window cleaning device. 3,345,672, 10-10-67, Cl. 15—322.

La Metallurgie Francaise des Poudres-Metafram: *See*—
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Youssef, Hassan. 3,301,642.

Laming, Lionel H. G., to Societe d'Exploitation des Materiels Hispano-Suiza. Testing apparatus for space vehicles, in particular for satellites. 3,344,673, 10-3-67, Cl. 73—432.

Lamkin, Elver B. and R. E., and F. G. Rest, to Lamkin Leather Co., Inc. Golf club grip for shafts with diametral variations. 3,360,264, 12-26-67, Cl. 273—81.

Lamkin Leather Co., Inc.: *See*—
Lamkin, Elver B. and R. E., and Rest. 3,360,264.

Lamkin, Robert E.: *See*—
Lamkin, Elver B. and R. E., and Rest. 3,360,264.

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Lamm, Morris: *See*—
Campaiola, Michael. 3,339,248.

Lamme, Robert E. Combined wheel cover and locking means. 3,317,247, 5-2-67, Cl. 301—37.

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Patry, Harvey L., F. J. and E., and Lamont. 3,319,330.

Lamont & Riley, Inc.: *See*—
Patry, Francis J., and Lamont. 3,300,913.
Patry, Harvey L., F. J. and E., and Lamont. 3,319,330.
Patry, Harvey L., F. J. and E., and Lamont. 3,346,941.

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Lamoreaux, Harry F., to General Electric Co. Siloxane polymers containing allylcinnamate groups. 3,296,196, 1-3-67, Cl. 260—46.5.

Lamoreaux, Harry F., to General Electric Co. Platinum addition catalyst system. 3,313,773, 4-11-67, Cl. 260—46.5.

Lamoreaux, Harry F., to General Electric Co. Trialkoxy vanadate curing agents for silanol-containing polysiloxanes. 3,334,066, 8-1-67, Cl. 260—46.5.

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Melli, Ernst, and Lampart. 3,353,170.

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La Mura, Joseph L. Cleaning machine. 3,328,821, 7-4-67, Cl. 15—102.

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Lancy, Leslie E. Metal waste solution sludge removal. 3,325,008, 6-13-67, Cl. 210—73.

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Land, Edwin H., to Polaroid Corp. Photographic apparatus. Re. 26,324, 12-19-67, Cl. 95—13.

Land, Edwin H., to Polaroid Corp. Vapor deposited silver precipitating agent in polymeric receiving layer and photographic use thereof. 3,295,972, 1-3-67, Cl. 96—29.

Land, Edwin H., to Polaroid Corp. Exposure control apparatus. 3,302,541, 2-7-67, Cl. 95—10.

Land, Edwin H., to Polaroid Corp. Semiautomatic camera instrumentation. 3,307,460, 3-7-67, Cl. 95—10.

Land, Edwin H., to Polaroid Corp. Color displays from triple lightness-distribution images. 3,312,781, 4-4-67, Cl. 178—5.4.

Land, Edwin H., to Polaroid Corp. Photographic film assemblage including processing liquid. 3,314,792, 4-18-67, Cl. 96—76.

Land, Edwin H., to Polaroid Corp. Dual mode control means. 3,315,579, 4-25-67, Cl. 95—10.

Land, Edwin H., to Polaroid Corp. Comparison photometer. 3,323,431, 6-6-67, Cl. 95—10.

Land, Edwin H., to Polaroid Corp. Photographic product and process of using same. 3,345,165, 10-3-67, Cl. 96—29.

Land, Edwin H., to Polaroid Corp. Photographic processing method utilizing frozen aqueous solutions. 3,345,172, 10-3-67, Cl. 96—48.

Land, Edwin H., to Polaroid Corp. Radiographs viewable by reflected or transmitted light. 3,351,466, 11-7-67, Cl. 96—29.

Land, Edwin H., to Polaroid Corp. Photographic flash apparatus and method. 3,353,464, 11-21-67, Cl. 95—11.

Land, Edwin H., R. J. Chen, J. W. Lothrop, and R. R. Wareham, to Polaroid Corp. Radio transmitter-camera combination. 3,295,426, 1-3-67, Cl. 95—11.5.

Land, Edwin H., and A. J. Sable, to Polaroid Corp. Photographic apparatus. 3,303,768, 2-14-67, Cl. 95—89.

Land, Edwin H., and H. G. Rogers, to Polaroid Corp. Photographic processes comprising stepwise control of dye developer diffusibility in alkali. 3,320,062, 5-16-67, Cl. 96—3.

Land, Edwin H., M. Green, and M. M. Morse, to Polaroid Corp. Diffusion transfer photographic process using 4,6-diamino-ortho cresol. 3,326,683, 6-20-67, Cl. 96—29.

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Land, Edwin H., and R. J. Chen, to Polaroid Corp. Photographic process and apparatus for producing photographic images. 3,357,337, 12-12-67, Cl. 95—94.

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Landau, Raphael. Method for the preparation of light-sensitive diazotype materials and improved materials prepared by such method. 3,353,984, 11-21-67, Cl. 117—34.

Landau, Richard E. Method and apparatus for constructing columns of material in soil. 3,303,656, 2-14-67, Cl. 61—63.

Landau, Richard E. Construction of support columns in soil. 3,336,760, 8-22-67, Cl. 61—53.6.

Landauer, Franz, G. Weckler, and M. Reuter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Levelling agents for dyeing textile materials. 3,313,589, 4-11-67, Cl. 8—35.

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Landen, William J., to The International Silver Co. Cartridge-type lipstick container or the like. 3,335,854, 8-15-67, Cl. 206—56.

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Landis, Phillip S., and P. B. Venuto. Chain alkylation of mercapto and selenyl aromatic compounds in the presence of an internal ordered alumino-silicate catalyst. 3,329,726, 7-4-67, Cl. 260—609.

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Dunn, Elman R. 3,348,341.
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Price, Ralph E., and Dunn. 3,299,581.
Price, Ralph E., and Flohr. 3,313,285.
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Landler, Yvan, and P. H. Lebel, to Societe Anonyme dite: Pneumatiques et Caoutchouc Manufacture et Plastiques Kleber Colombes. Processes for the manufacture of cellular products. 3,308,074, 3-7-67, Cl. 260—2.5.

Landler, Yvan, P. Lebel, and J. Reygrobellet, to Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber Colombes. Water adsorbent polyurethane sponge and process for preparing same. 3,326,823, 6-20-67, Cl. 260—2.5.

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Landon, Everett W., to Landon, Inc. Jet-washed rotatable filters. 3,297,163, 1-10-67, Cl. 210—331.

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Lane, Norman, to BSR Ltd. Detachable spindle for automatic record players. 3,322,428, 5-30-67, Cl. 274—10.

Lane, Raymond J., P. E. Hardy, and J. W. Sharp, to Bristol Siddeley Engines Ltd. Jet propulsion power plants. 3,324,-660, 6-13-67, Cl. 60—244.

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La Porte, Gerald E., J. D. Lear, and W. C. Whitcher, to Fedders Corp. Method of making radiators. 3,310,869, 3–28–67, Cl. 29—157.3.
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Larsen, Hans R., to Union Carbide Canada Ltd. Rate-controlled vulcanization of polyethylene. 3,335,124, 8–8–67, Cl. 260—94.9.

Larsen, Hans R., to Union Carbide Canada Ltd. Static charge elimination in polyethylene. 3,357,966, 12–12–67, Cl. 260—94.9.

Larsen, Hugh W., to General Motors Corp. Vibration damper. 3,296,887, 1–10–67, Cl. 74—574.

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Larsen, John E., to General Electric Co. Method of introducing electrical conductors into conductor accommodating structure. 3,333,327, 8–1–67, Cl. 29—596.

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Larsen, Norman B., to Matrix Laboratories, Inc. Plant protector. 3,320,697, 5–23–67, Cl. 47—34.11.

Larsen, Norman B., to C. J. Webb, Inc. Composition for protecting metals against corrosion. 3,341,461, 9–12–67, Cl. 252—153.

Larsen, Olaf E., to Phillips Petroleum Co. Extrusion method. 3,309,436, 3–14–67, Cl. 264—25.

Larsen, Ralph L. Surface projectile game apparatus. 3,356,370, 12–5–67, Cl. 273—176.

Larsen, Raymond B., to Electric Information Co. Frequency coded digital recording system. 3,354,463, 11–21–67, Cl. 346—74.

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Larsen, Ronald L., to Wood Conversion Co. Spring-cushion structures and cushioning material therefor. 3,315,283, 4–25–67, Cl. 5—354.

Larsen, Trygve. Window lock. 3,306,644, 2–28–67, Cl. 292—241.

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Larson, Donald G., and W. H. Wachowiak, to Warwick Electronics, Inc. Anti-backlash gear and assembly. 3,357,273, 12–12–67, Cl. 74—440.

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Larson, Gustav O. Molecular models. 3,313,042, 4–11–67, Cl. 35—18.

Larson, Harold A., to General Electric Co. Anti-icing means. 3,341,114, 9–12–67, Cl. 230—132.

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Larson, John C., to Honeywell Inc. Control apparatus. 3,322,375, 5–30–67, Cl. 244—77.

Larson, John E., and J. G. Kuderna, Jr., to Shell Oil Co. 2,4-dihalophenyl esters of lower alkane- and haloalkanesulfonic acids. 3,346,613, 10–10–67, Cl. 260—456.

Larson, John R., and R. P. Zimmerman, to Universal Oil Products Co. Cyclocooligomerization process. 3,349,138, 10–24–67, Cl. 260—666.

Larson, John W., to United Aircraft Corp. Electro-fluid-dynamic generator. 3,346,747, 10–10–67, Cl. 310—11.

Larson, Karl O. Bag holder. 3,297,287, 1–10–67, Cl. 248—101.

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Larson, Leslie B. Attachment for envelope handling machine. 3,353,461, 11–21–67, Cl. 93—62.

Larson, Lester L., to Paul E. Hawkinson Co. Tire retreading equipment. 3,315,312, 4–25–67, Cl. 18—18.

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Larson, Maurice A., and K. C. Hong, to Iowa State University Research Foundation. Method comprising the application of a phosphorus sulfide-ammonia solution to the soil. 3,343,939, 9–26–67, Cl. 71—32.

Larson, Melvin L., to American Metal Climax, Inc. Process for making molybdenum acetylacetonate. 3,320,294, 5–16–67, Cl. 260—429.

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Larson, Robert W., to Beloit Corp. Rack structure for tree harvesting apparatus. 3,335,886, 8–15–67, Cl. 214—502.

Larson, Robert W., to Beloit Corp. Self-loading skidder and stacker. 3,342,357, 9–19–67, Cl. 214—147.

Larson, Robert W., O. E. Olson, W. D. Harkness, and W. E. Mair. Method of delimbing and felling trees. 3,353,575, 11–21–67, Cl. 144—309.

Larson, Rodger G., to Westinghouse Electric Corp. Electromagnetic switching device having a discharge gap formed by two spaced coaxial lines extending into a gas-filled waveguide. 3,319,114, 5–9–67, Cl. 315—39.

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Larsson, Bengt-Ake, to Aktiebolaget Svendka Flaktfabriken. Method for humidifying boards of wood fibre or similar material. 3,335,499, 8–15–67, Cl. 34—13.8.

Larsson, Bertil I., to Aktiebolaget Sigfried Stenberg. Method and a machine tool for cutting and/or treating threads of rod-shaped work pieces. 3,343,438, 9–26–67, Cl. 90—11.62.

Larsson, Bo Gunnar, to Atlas Copco Aktiebolag. Rotary piston machines and cylinder housings. 3,307,454, 3–7–67, Cl. 91—121.

Larsson, Eskil. Housing for electrical apparatus having an electrical cable connected therewith. 3,324,228, 6–6–67, Cl. 174—65.

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Larsson, Ivar F., and D. Pilestnieks. Apparatus for coating metal on a substrate. 3,356,066, 12–5–67, Cl. 118—109.

Larsson, Kurt E. S., to L. A. Bettsher. Frozen meat slicer having transmission with irrational ratio. 3,314,461, 4–18–67, Cl. 146—105.

La Rue, Albert D., and R. S. Symons, to Varian Associates. Electron tube with collector having magnetic field associated therewith, said field causing electron dispersion throughout the collector. 3,297,907, 1–10–67, Cl. 315—5.39.

LaRue, Albert D., R. H. L. Bibb, and R. S. Symons, to Varian Associates. Beam current measurement by inductive techniques for high frequency electron discharge device. 3,316,485, 4–25–67, Cl. 324—24.

La Rue, Donald G.: *See*—
Townsend, Merlyn E., Guelda, and La Rue. 3,311,956.

La Rue, Eleanor S. and F. G.; said F. G. la Rue assor. to said E. S. la Rue. Detachable fastener. 3,303,543. 2–14–67, Cl. 24—104.

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La Rue, Eleanor S. and F. G. 3,303,543.

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Lasar, William. Automatic meat grinding apparatus. 3,310,086, 3–21–67, Cl. 146—186.

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Levine, Bernard B., and R. Phillips, to Bernard Plastics Molding Corp. Auxiliary hanger. 3,307,753, 3–7–67, Cl. 223—95.
Levine, Beth, to Levine, Herbert, Inc. Shoe construction. 3,355,824, 12–5–67 Cl. 36—58.5.

Levine, Charles A., to The Dow Chemical Co. Cross-linked sulfonated aliphatic hydrocarbon polymers. 3,320,218, 5–16–67, Cl. 260—79.3.
Levine, Charles A., to The Dow Chemical Co. Method of coating hollow fibers. 3,331,758, 7–18–67, Cl. 204—20.
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Levine, Leonard, and G. E. Ham, to The Dow Chemical Co. Process for producing 2-hydroxy-alkylcarbamic acid esters. 3,326,968, 6–20–67, Cl. 260—482.
Levine, Marvin, to OPTOmechanisms, Inc. Film spool loading means. 3,326,490, 6–20–67, Cl. 242—71.
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Levine, Seymour D., and P. A. Principe, to E. R. Squibb & Sons, Inc. A-norsteroids. 3,324,172, 6–6–67, Cl. 260—488.
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Leviton, Jan, to Fairchild Camera and Instrument Corp. Automatic ink ductor control for printing presses. 3,301,182, 1–31–67, Cl. 101—351.
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Butterfield, James F. 3,343,453.
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Levitt, Myron B., to Fairchild Camera and Instrument Corp. External rotor gyro motor speed detector. 3,321,705, 5–23–67, Cl. 324—70.
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Levy, Eugene J., and D. G. Paul, to Hewlett-Packard Co. Detection method and apparatus for gas chromatography. 3,329,005, 7–4–67, Cl. 73—23.1.
Levy, Eugene L., L. F. Herk, W. H. Stahl, and D. M. G. Lawrey. Automatic fraction collecting system for vapor phase chromatography. 3,301,040, 1–31–67, Cl. 73—23.1.
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Levy, Leon S., A. E. Wennstrom, and W. M. Cook, to Hughes Aircraft Co. Magnetic core circuit. 3,296,603, 1–3–67, Cl. 340—174.
Levy, Louis, and R. L. Van Den Hout. Flashlight attachment for clipboards. 3,297,862, 1–10–67, Cl. 240—6.4.
Levy, Louis, and R. L. Van Den Hout. Flashlight attachment for clipboards. 3,309,514, 3–14–67, Cl. 240—6.4.

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Levy, Sheldon G., D. A. Baker, and R. F. Monroe, to The Dow Chemical Co. Non-corrosive dry-cleaning composition. 3,337,471, 8–22–67, Cl. 252—153.

Levy, Stephen D., R. W. Addor, and R. J. Magee, to American Cyanamid Co. New heterocyclic organo-phosphate compounds. 3,317,561, 5–2–67, Cl. 260—327.

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Levy, Warren W., H. A. Schweriner, and D. Simons, to The Simco Co., Inc. Electrostatic pinning method and copyboard. 3,359,469, 12–19–67, Cl. 317—262.

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Lew, Baak W., to Atlas Chemical Industries, Inc. Polyol poly (hydrogen alkyl phosphite) monomers. 3,352,947, 11–14–67, Cl. 260—928.

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Lew, Heung. Pressing machines. 3,349,976, 10–31–67, Cl. 223—73.

Lew, William. Panel-locked furniture. 3,305,285, 2–21–67, Cl. 312—257.

Lewakowski, John J., to Chrysler Corp. Method of forming a control valve for a servo system. 3,334,397, 8–8–67, Cl. 29—157.1.

Lewallen, William J., and J. F. Wood, to Shelly Oil Co. Reactivation of molecular sieves. 3,301,792, 1–31–67, Cl. 252—418.

Lewandowski, Raymond F., W. F. Boulter, R. R. Gustafson, and H. S. Tice, Jr., to Oak Electro/Netics Corp. Channel selecting switch with improved locking means. 3,320,372, 5–16–67, Cl. 200—5.

Lewandowski, Raymond F., and H. S. Tice, Jr., to Oak Electro/Netics. Push button switch. 3,339,428, 9–5–67, Cl. 74—483.

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Lewin, Seymour Z., to Warner-Lambert Pharmaceutical Co. Dry heating process for preparation of antacid compounds. 3,360,345, 12–26–67, Cl. 23—315.

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Lewis, Albert B. Scoop attachment for tractor three point hitch. 3,319,367, 5–16–67, Cl. 37—118.

Lewis, Albert D., to Owens-Illinois, Inc. Hypodermic injection device. 3,332,419, 7–25–67, Cl. 128—218.

Lewis, Albert D., to Owens-Illinois, Inc. Apparatus for forming the open end portion of small glass containers. 3,343,937, 9–26–67, Cl. 65—274.

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Sassiver, Martin L., Lewis, and Shepherd. 3,345,369.

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Lewis, Benjamin A., M. L. Sassiver, and R. G. Shepherd, to American Cyanamid Co. Substituted 7-acetylamino cephalosporanic acids. 3,341,532, 9–12–67, Cl. 260—243.

Lewis, Benjamin A., M. L. Sassiver, and R. G. Shepherd, to American Cyanamid Co. Substituted 7-acetylamino cephalosporanic acids. 3,345,366, 10–3–67, Cl. 260—243.

Lewis, Benjamin A., M. L. Sassiver, and R. G. Shepherd, to American Cyanamid Co. Substituted 7-acetylamono cephalosporanic acids. 3,345,368, 10–3–67, Cl. 260—243.

Lewis, Bernard L., to Radiation Inc. Modulated corner reflector. 3,308,464, 3–7–67, Cl. 343—18.

Lewis, Bernard L., to Radiation Inc. Fresnel zone correcting antenna having a plurality of concentric spaced conical dielectric sections. 3,312,974, 4–4–67, Cl. 343—755.

Lewis, Carl M., to The Trane Co. Condenser fan speed control. 3,354,665, 11–28–67, Cl. 62—184.

Lewis, Charles E., to American Cyanamid Co. Cationic 1-alkyl-3-(2-hydroxy-1-naphthylazo pyridinium dyes. 3,312,681, 4–4–67, Cl. 260—156.

Lewis, Charles E., to American Cyanamid Co. Polymeric fibers colored with cationic dyestuffs. 3,330,617, 7–11–67, Cl. 8—41.

Lewis, Clarence A., and J. F. O'Brien, to Champlain Co., Inc. Bi-directional electrical servo system. 3,355,640, 11–28–67, Cl. 318—18.

Lewis, Clifford J., and E. R. De Ment, to Southwest Enterprises, Inc. Process for producing iron oxide pigments. 3,341,347, 9–12–67, Cl. 106—304.

Lewis, Clyde P. Trailer hitch. 3,353,842, 11–21–67, Cl. 280—447.

Lewis, Dallas B., deceased (L. Parker, J. Heidt, and R. Gaston, executors). Multiphase separator. 3,306,446, 2–28–67, Cl. 210—114.

Lewis, Daniel W., and P. A. Tierney, to United States of America, Navy. Thermoelectric unit comprising intimate layers of gallium-indium alloy and alumina. 3,337,309, 8–22–67, Cl. 29—183.5.

Lewis, David W., to The M-O Valve Company Ltd. Cathode ray tube with means for splitting the electron beam into individually deflected and focused beams. 3,358,172, 12–12–67, Cl. 313—80.

Lewis, Donald E., and D. A. Biesecker. Pilot operated piston valve. 3,351,316, 11–7–67, Cl. 251—30.

Lewis, Dorothy D.: *See*—
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Lewis, Earl C. Litter bag for automotive vehicles. 3,341,116, 9–12–67, Cl. 232—43.2.

Lewis, Earl C. Motorized telephone directory. 3,358,393, 12–19–67, Cl. 40—31.

Lewis, Edgar R., Sr. Fishing kite. 3,314,630, 4–18–67, Cl. 244—153.

Lewis, Edward F. to General Motors Corp. Quiet forced air system for automobiles. 3,306,177, 2–28–67, Cl. 98—2.

Lewis, Edward L., and V. Vartanian, to Kollmorgen Corp. Filter switching and bias adjusting means for use in a colorimeter. 3,304,832, 2–21–67, Cl. 88—14.

Lewis, Eric C., % to Alumasc Ltd. Waste disposal unit. 3,323,714, 6–6–67, Cl. 232—43.2.

Lewis, Ernest E., and C. A. Maher, Jr., to General Electric Co. Power system control. 3,324,740, 6–13–67, Cl. 74—472.

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Lewis, Everett C., and J. T. Reese, to Combustion Engineering, Inc. Corrosion reducing method and material for furnaces. 3,306,235, 2–28–67, Cl. 110—1.

Lewis, Frank D., Sr., and E. W. Rumrill, Jr., to Lockheed Aircraft Corp. Cartridge valve assembly. 3,347,260, 10–17–67, Cl. 137—315.

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Lewis, George, and P. Arena, to Dahlberg Electronics, Inc. Ear canal hearing aid. 3,312,789, 4–4–67, Cl. 179—107.

Lewis, George D., to United Aircraft Corp. Bistable valve control. 3,330,483, 7–11–67, Cl. 239—265.23.

Lewis, George D., to United Aircraft Corp. Combustion instability reduction device. 3,359,737, 12–26–67, Cl. 60—265.

Lewis, George E., to Hydril Co. Underwater connector. 3,339,632, 9–5–67, Cl. 166—.6.

Lewis, George E., to Hydril Co. Underwater control system. 3,353,594, 11–21–67, Cl. 166—.6.

Lewis, George L.: *See*—
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Lewis, George L., and D. M. Sowards, to E. I. du Pont de Nemours and Co. Process for producing fibrous alkali metal titanates. 3,331,658, 7–18–67, Cl. 23—51.

Lewis, Gerald P., and P. Ruetschi, to The Electric Storage Battery Co. Multistage process for the concentration of heavy water in feed water comprising a mixture of water and heavy water. 3,306,832, 2–28–67, Cl. 204—101.

Lewis, Gordon M., to Bristol Siddeley Engines Ltd. Guards for air intakes of jet engines. 3,333,794, 8–1–67, Cl. 244—53.

Lewis, Harlan L., and R. E. Martin, to Owens-Illinois, Inc. Organopolysiloxane bead forming process and products. 3,334,065, 8–1–67, Cl. 260—46.5.

Lewis, Harrell J.: *See*—
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Lewis, Hector E., to Surgical Appliance Industries, Inc. Ankle brace. 3,298,365, 1–17–67, Cl. 128—80.

Lewis, Henry R., to Radio Corp. of America. High power laser incorporating plural tunable amplifier stages. 3,312,905, 4–4–67, Cl. 330—4.3.

Lewis, Henry R., to Radio Corp. of America. Laser system employing means with no moving parts for producing an angularly rotatable beam of coherent light. 3,344,365, 9–26–67, Cl. 331—94.5.

Lewis, Irwin C.: *See*—
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Lewis, James E., and B. B. Graves, to Radiochemistry, Inc. Low level gas proportional counter construction. 3,297,897, 1–10–67, Cl. 313—93.

Lewis, James G., to The Imperial Tobacco Co. (of Great Britain and Ireland), Ltd. Pneumatic conveyors. 3,314,734, 4–18–67, Cl. 302—64.

Lewis, James L., to Sterling Drug Inc. Spoon for extracting liquid from eggs. 3,326,205, 6–20–67, Cl. 128—1.

Lewis, James M.: *See*—
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Lewis, Jay L., to Robertshaw Controls Co. Sequence valve. 3,298,395, 1–17–67, Cl. 137—607.

Lewis, Jess A. Bushing and seal repair kit and method for installing the same. 3,322,476, 5–30–67, Cl. 308—36.1.

Lewis, Jess A. Method and apparatus for automatic transmission repair. 3,354,534, 11–28–67, Cl. 29—402.

Lewis, Jess A. Apparatus and method for clutch repair. 3,354,996, 11–28–67, Cl. 192—85.

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Lewis, John G., to Emerson Electric Co. Motor bearing support bracket. 3,343,016, 9–19–67, Cl. 310—90.

Lewis, John G., and H. A. Ohlgren, to Nuclear Technical Service Corp. Method for forming a refractory metal or carbide coating on refractory materials and article. 3,306,764, 2–28–67, Cl. 117—61.

Lewis, John M.: *See*—
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Lewis, John P. H. V. C. Razor with relative blade and guard adjustment with protecting means for one edge of a double-edge blade. 3,324,547, 6–13–67, Cl. 30—72.

Lewis, John R., to Safe Flight Instrument Corp. Control means. 3,312,121, 4–4–67, Cl. 74—480.

Lewis, John T.: *See*—
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Lewis, Karl R. Firearm barrel, shroud, frame, and cylinder construction. 3,303,594, 2–14–67, Cl. 42—59.

Lewis, Karl R., to Colts' Inc. Articulated sight. 3,323,215, 6–6–67, Cl. 33—53.

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Siegrist, Adolf E., Maeder, Liechti, and Guglielmetti. 3,351,592.

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Lien, Llewellyn R., to Allis-Chalmers Mfg. Co. Horizontal orientable plow standard clamp. 3,325,228, 6–13–67, Cl. 306—1.5.

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Liu, John K., to Force Control, Inc. Variable speed drive. 3,330,163, 7–11–67, Cl. 74—190.5.

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Liu, Ko-Hsin, to Industrial Nucleonics Corp. Dielectric measuring system including an amplifier having a nonamplifying cathode follower circuit. 3,323,048, 5–30–67, Cl. 324—61.

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Lloyd, Robert D., to Monsanto Co. Method and apparatus for removing blockage of material in transporting conduits. 3,316,028, 4–25–67, Cl. 302—52.

Lloyd, Robert D., to Monsanto Co. Apparatus for discharging receptacles. 3,316,029, 4–25–67, Cl. 302—52.

Lloyd, Thomas W., to Harbison-Walker Refractories Co. Metal encased refractory. 3,324,811, 6–13–67, Cl. 110—99.

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Lobbe, Armin, to Gewerkschaft Eisenhutte Westfalia. Planer arrangement with transverse conveyor clearing accumulation at end of face conveyor. 3,306,666, 2–28–67, Cl. 299—34.

Lobbe, Armin, to Gewerkschaft Eisenhutte Westfalia. Coal planer having adjustable and relatively adjustable cutters. 3,321,249, 5–23–67, Cl. 299—34.

Lobbe, Armin, and C. Rassmann, to Gewerkschaft Eisenhutte Westfalia. Mining planer pivotal on base. 3,305,269, 2–21–67, Cl. 299—34.

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Lo Casale, Thomas M., to Sperry Rand Corp. Tunnel diode to transistor interface circuit for interconnecting high speed circuitry to relatively slower circuitry. 3,333,116, 7–25–67, Cl. 307—88.5.

Lo Casale, Thomas M., and A. E. Hales, Jr., to Sperry Rand Corp. Bi-directional current switch. 3,360,788, 12–26–67, Cl. 340—174.

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Loch, Luther D., to Carborundum Co. High beta thermistors. 3,341,473, 9–12–67, Cl. 252—520.

Locher, Gordon L., to United States of America, Navy. Micrometric linear actuator. 3,296,467, 1–3–67, Cl. 310—8.1.

Locher, Hans. Snow retaining device for tiled and plated roofs. 3,305,980, 2–28–67, Cl. 52—24.

Locher, Ross E., to Zinsco Electrical Products. Multiple unit switch with improved interlocking contact support bar. 3,312,798, 4–4–67, Cl. 200—50.

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Locke, David R., and J. F. Daniels, to Sperry Rand Corp. Cutter head assembly for dry shavers having skin undulating means. 3,339,277, 9–5–67, Cl. 30—34.2.

Locke, Frank W., to Waldorf Paper Products Co. Folders. 3,301,463, 1–31–67, Cl. 229—40.

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Laub, Henry W., Messner, Loftfield, and Barbato. 3,308,047.

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Logan, Walter, and E. E. Newhall, to Bell Telephone Laboratories, Inc. Wiring machine for magnetic core boards. 3,351,102, 11-7-67, Cl. 140—93.

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Lombardi, Claudio. Burglar proof safety lock with cams that block the bolt and electric alarm devices. 3,299,229, 1-17-67, Cl. 200—44.

Lombardi, Jack P. Spiral seamed corrugated laminated pipe with uncorrugated interior. 3,340,901, 9-12-67, Cl. 138—178.

Lombardi, Michael W., and J. M. Kapusta, to The B. F. Goodrich Co. Weather strip. 3,357,137, 12-12-67, Cl. 49—475.

Lombardo, Michael. Leak detector. 3,295,361, 1-3-67, Cl. 73—40.5.

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Londahl, Dickey S., and M. A. Schueler, to Unimark Corp. Electrostatic printer with powder feed structure inside stencil drum. 3,352,234, 11-14-67, Cl. 101—114.

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London, Larry. Boxing stick. 3,336,029, 8-15-67, Cl. 273—67.

London, Seymour B. Blood pressure monitors. 3,319,623, 5-16-67, Cl. 128—2.05.

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Long, Arthur H., and A. Shashaty, to Wm. K. Stamets Co. Coupling screw-on machine. 3,298,089, 1-17-67, Cl. 29—240.

Long, Arthur R., to Gibson Bros. Co. Torque divider. 3,359,803, 12-26-67, Cl. 74—650.

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Long, Bernard, to G.B.D. Societe Anonyme Holding. Glass-drawing apparatus including reheating means for producing flat sheets. 3,301,651, 1-31-67, Cl. 65—182.

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Long, George B., to General Motors Corp. Microwave oven door closure. 3,304,401, 2-14-67, Cl. 219—10.55.

Long, George B., to General Motors Corp. Microwave oven. 3,329,795, 7-4-67, Cl. 219—10.55.

Long, George B., to General Motors Corp. Method of reacting chemical components using sonic or supersonic waves. 3,346,472, 10-10-67, Cl. 204—157.1.

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Dodson, William C., Jr., and Long. 3,353,225.

Long, Gordon D.: *See*—
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Long, John B., to Marmon-Herrington Co., Inc. Belt take-up and storage unit for extensible belt conveyors. 3,352,406, 11-14-67, Cl. 198—139.

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Long, Noel V., to Adams Inc. Textile production control apparatus. 3,319,253, 5-9-67, Cl. 346—34.

Long, Noel V., and D. J. Buckley, to Adams Inc. Textile production control apparatus. 3,340,537, 9-5-67, Cl. 346—34.

Long, Olan L., to Westinghouse Electric Corp. Rotary valve having renewable sealing surface. 3,296,026, 1-3-67, Cl. 137—329.05.

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Long, Roger A. High temperature compositions. 3,350,214, 10-31-67, Cl. 106—55.

Long, Roger A., to Whittaker Corp. Method for exothermic brazing of metal joints. 3,358,356, 12-19-67, Cl. 29—498.5.

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Lotz, Horst K. Device for the removal of cut-off work pieces in continuous casting installations. 3,321,067, 5-23-67, Cl. 198—78.

Lotz, Horst K., to Messer Griesheim G.m.b.H. Device for supporting the strand in the cutting area in continuous casting plants. 3,322,418, 5-30-67, Cl. 266—23.

Lotz, Horst K., and A. Pfeuffer, to Messer Griesheim G.m.b.H. Cutting cycle for flame cutting of billets. 3,350,079, 10-31-67, Cl. 266—23.

Lotz, Rudolf, G. Wick, and C. Neuhaus, to Vereinigte Glanzstoff-Fabriken A.G. Process for the recovery of dimethyl terephthalate from polyethylene terephthalate. 3,321,510, 5-23-67, Cl. 260—475.

Lotz, Walter. Interleaving machine. 3,296,768, 1-10-67, Cl. 53—74.

Lotze Thomas H.: *See*—
Witt, Walter, and Lotze. 3,311,014.

Lou, Shih-Woo. Electric shunt device. 3,345,482, 10-3-67, Cl. 200—118.

Lou, Shih-Woo. Shunt device. 3,359,523, 12-19-67, Cl. 338—70.

Loubier, Robert J., to The Magnavox Co. Recorder with articulated arm for receiver removal. 3,341,858, 9-12-67, Cl. 346—136.

Loucks Claude A.: *See*—
Schmidt, Lewis W. 3,326,319.

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Loudin, Kyle L., R. H. Merryman, and G. Musat, to The Babcock & Wilcox Co. Liquid atomizer. 3,326,470, 6-20-67.

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Loudon, John D., to Cryogenic Engineering Co. Low temperature storage container. 3,298,185, 1-17-67, Cl. 62—48. Cl. 239—404.

Louft, Doris J.: *See*—
Louft, Nathan. 3,315,393.

Louft, Nathan, deceased: R. Louft, executrix, to R. P. and D. J. Louft. Display sign standard. 3,315,393, 4-25-67, Cl. 40—145.

Louft, Rosemary: *See*—
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Lough, Richard C., and G. J. Krolzick, to Whirlpool Corp. Lint accumulator means for a dryer. 3,323,224, 6-6-67, Cl. 34—82.

Loughborne, Inc.: *See*—
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Loughry, Horton H.: *See*—
Dodson, Osborne C., and Loughry. 3,301,197.

Louis, Arnold S., and M. A. Coler. Manufacture of destaticized resinous polymeric article. 3,317,452, 5-2-67, Cl. 260—32.6.

Louis, Arnold S., and P. V. De Luca, to Markite Corp. Wiper assembly for potentiometers. 3,328,707, 6-27-67, Cl. 338—202.

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Louis, Helmut P., and W. Dietrich, to International Business Machines Corp. Nondestructive readout thin film memory. 3,304,543, 2-14-67, Cl. 340—174.

Louis, Jean F., to Avco Corp. Means for improving the performance of electrodes in magnetohydrodynamic devices. 3,303,363, 2-7-67, Cl. 310—11.

Louis, Jean F., to Avco Corp. Method of improving the performance of electrodes in magnetohydrodynamic devices. 3,349,260, 10-24-67, Cl. 310—11.

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Carrier, Robert M., Jr. 3,346,097.

Loukes, David G., and J. G. Banner, to Pilkington Bros. Ltd. Method of manufacture of flat glass on molten tin. 3,305,337, 2-21-67, Cl. 65—65.

Loukes, David G., and A. Edwards, to Pilkington Bros. Ltd. Method and apparatus for decontaminating a glass sheet making molten metal bath. 3,330,635, 7-11-67, Cl. 65—27.

Loukes, David G., and A. Edwards, to Pilkington Bros. Ltd. Method of removing impurities in a molten metal bath for glass sheet making. 3,330,637, 7-11-67, Cl. 65—99.

Loukes, David G., and J. G. Banner, to Pilkington Bros. Ltd. Process of manufacturing flat glass on a molten metal bath. 3,337,323, 8-22-67, Cl. 65—65.

Loukes, David G., and A. S. Robinson, to Pilkington Bros. Ltd. Method of protecting the surface of the molten bath in a glass sheet float operation. 3,356,474, 12-5-67, Cl. 65—26.

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Loukopoulos, Loukas. Clasp envelope. 3,355,091, 11-28-67, Cl. 229—78.

Louks, Robert A. Grain bin level filler. 3,339,760, 9-5-67, Cl. 214—17.

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Risk, George, Root, and Sotir. 3,300,900.

Loupéré, André, to Societe Anonyme: Societe Nationale des Petroles d' Aquitaine. Damping device for a shaft which is subject simultaneously to longitudinal and angular oscillations. 3,343,377, 9-26-67, Cl. 64—27.

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Louthan, Rector P., to Phillips Petroleum Co. Polymerization of mercapto-substituted nitriles. 3,328,459, 6-27-67, Cl. 260—465.5.

Louthan, Rector P., to Phillips Petroleum Co. N,N'-bis(hydrocarbylsulfinyl)piperazines. 3,342,821, 9-19-67, Cl. 260—268.

Louton, Kenneth. Coating composition. 3,328,186, 6-27-67, Cl. 106—251.

Loutte, Jean, to Glaverbel. Apparatus for the manufacture of sheet glass on a molten bath. 3,353,943, 11-21-67, Cl. 65—182.

Louvar, Cecelia J., and A. J. de Rosset, to Universal Oil Products Co. Production of bromine by oxidation of hydrogen bromide. 3,346,340, 10-10-67, Cl. 23—216.

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Louvar, James J., and A. G. Francoy-Atares, to Universal Oil Products Co. Preparation of cycloalkyl aromatic compounds. 3,317,611, 5-2-67, Cl. 260—612.

Louvar, James J., A. J. Guarnaccio, and T. Symon, to Universal Oil Products Co. Stabilization of organic substances. 3,330,777, 7-11-67, Cl. 252—402.

Louvel, Bernard. Automatic programming in the utilization of a variable electrical response. 3,328,774, 6-27-67, Cl. 340—172.5.

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Loux, Harvey M., to E. I. du Pont de Nemours and Co. 3-bicycloalkyl-6-methyluracil. 3,360,522, 12-26-67, Cl. 260—260.

Loux, Harvey M., to E. I. du Pont de Nemours and Co. 3,5,6-substituted hydrouracils. 3,360,523, 12-26-67, Cl. 260—260.

Louzil, Friedrich, to North American Philips Co., Inc. Magnetic tape dictating machine of the self threading type. 3,311,314, 3-28-67, Cl. 242—55.13.

Louzil, Friedrich, A. Appel, and G. Podest, to North American Philips Co., Inc. Control for tape drive of automatic threading recorder/reproducer. 3,314,624, 4-18-67, Cl. 242—55.12.

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Lovas, Stephen P., and G. S. Di Monico, to Royal Packaging Equipment, Inc. Packaging machine and method of forming packages. 3,303,628, 2-14-67, Cl. 53—22.

Love, Addison N., to Harold Brown Co. Pressure regulator. 3,306,312, 2-28-67, Cl. 137—82.

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Love, Jefferson C. Multi-use applicator. 3,353,721, 11-21-67, Cl. 222—209.

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Love, Richard R. Wheel and axle assembly. 3,353,840, 11-21-67, Cl. 280—124.

Lorenz, Rudolf A. Motor vehicle seat. 3,295,889, 1–3–67, Cl. 297—299.

Lorenz, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Pyridyl and quinolyl mercapto methyl phosphorus esters. 3,320,261, 5–16–67, Cl. 260—283.

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Lorenzini, Robert E., to Elmat Corp. Crystal growth sampler. 3,337,304, 8–22–67, Cl. 23—273.

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Lornitzo, Frank C., to Ametek, Inc. Drive for a washing machine. 3,359,762, 12–26–67, Cl. 68—24.

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Los, Marinus, to American Cyanamid Co. Tetracyclic compounds and methods of preparing the same. 3,321,489, 5–23–67, Cl. 260—343.2.

Los, Marinus, to American Cyanamid Co. Intermediates for preparing steroids. 3,321,511, 5–23–67, Cl. 260—488.

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Donelan, James A., and Losty. 3,343,636.
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Lotz, Horst K., to Messer Griesheim G.m.b.H. Device for supporting the strand in the cutting area in continuous casting plants. 3,322,418, 5–30–67, Cl. 266—23.

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Louft, Doris J.: *See*—
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Louft, Nathan, deceased; R. Louft, executrix, to R. P. and D. J. Louft. Display sign standard. 3,315,393, 4–25–67, Cl. 40—145.

Louft, Rosemary: *See*—
Louft, Nathan. 3,315,393.

Louft, Rosemary P.: *See*—
Louft, Nathan. 3,315,393.

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Louis, Arnold S., and M. A. Coler. Manufacture of de-staticized resinous polymeric article. 3,317,452, 5–2–67, Cl. 260—32.6.

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Lyness, Warren I., and D. E. O'Connor, to The Procter & Gamble Co. Alpha and beta unsaturated sulfoxide and process for its production. 3,336,394, 8–15–67, Cl. 260—607.

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Lynn, John W., and W. J. Skraba, to Union Carbide Corp. Cross-linked and epoxidized cellulosic products. 3,326,788, 6–20–67, Cl. 204—159.12.

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Lynn, Ralph D., and R. A. Kirby, to Esso Production Research Co. Apparatus for measuring differential pressures. 3,318,145, 5–9–67, Cl. 73—152.

Lynn, Rice P. Apparatus for producing carbon black. 3,321,281, 5–23–67, Cl. 23—259.5.

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Lynnworth, Lawrence C., and E. H. Carnevale, to Parametrics, Inc. Ultrasonic probe. 3,302,044, 1–31–67, Cl. 310—8.3.

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Lyon, Kenneth C., J. E. Pickard, and A. B. Scholes, to Ball Bros. Co. Inc. Glass having dual protective coatings thereon and method for forming such coatings. 3,352,708, 11–14–67, Cl. 117—72.

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Lyon, Lee R., to Lycoil, Inc. Process for separating and recovering fats and solids. 3,352,841, 11–14–67, Cl. 260—112.

Lyon, Lee R., to Lycoil, Inc. Processing of offal or the like for obtaining separated fat and protein material therefrom. 3,352,842, 11–14–67, Cl. 260—112.

Lyon, Marjorie C., H. S. Pesa, and J. M. Fauver, to The National Cash Register Co. Display devices. 3,340,631, Cl. 40—28.

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Considine, William J., and Ricciardi. 3,342,758.
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MacCarthy, Richard W. Counter-rotating head electric razor. 3,298,101, 1–17–67, Cl. 30—43.5.

MacCarthy, Richard W. Manual mechanical razor with stationary circular blade. 3,349,483, 10–31–67, Cl. 30—43.6.

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Macchia, Thomas L., and G. W. Minor, to Westinghouse Electric Corp. Resin coated hardware and tank covers for distribution transformers. 3,305,812, 2–21–67, Cl. 336—90.

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Mackrle, Svatopluk and V., O. Dracka, and L. Paseka, to Ceskoslovenska akademie ved. Sludge blanket clarifier for water treatment. 3,307,702, 3–7–67, Cl. 210—200.
Mackrle, Vladimir: *See*—
Mackrle, Svatopluk and V., Dracka, and Paseka. 3,307,702.
Macks, Elmer F. Concentric foraminous shaping means for tubes or bars. 3,298,808, 1–17–67, Cl. 65—25.
Macks, Elmer F. High-speed handpiece. 3,306,375, 2–28–67, Cl. 173—59.
Maclam, James A., and R. E. O'Brien, to Kirkhof Mfg. Corp. Cake circle. 3,318,283, 5–9–67, Cl. 118—500.
MacLaren, Donald D., to Esso Research and Engineering Co. Powerformer startup procedure using nitrogen-hydrogen mixtures. 3,309,306, 3–14–67, Cl. 208—138.
MacLaren, Donald D., and A. D. Reichle, to Esso Research and Engineering Co. Catalyst activation process. 3,360,481, 12–26–67, Cl. 252—420.
MacLaughlin, Donald, and M. H. Schug, to CEMSCO. Device and method for inserting a sleeve in a cable. 3,305,426, 2–21–67, Cl. 156—294.
Maclay, William N.: *See*—
Guziak, Leonard F., and Maclay. 3,301,806.
Maclay, William R.: *See*—
Jackson, Ralph N., Maclay, Metzger, and Stewart. 3,302,067.
MacLean, Alexander F., to Celanese Corp. Production of aromatic sulfonic acid esters. 3,320,301, 5–16–67, Cl. 260—456.
MacLean, Alexander F., and A. L. Stautzenberger, to Celanese Corp. Catalyzed oxidation reactions. 3,317,592, 5–2–67, Cl. 260—533.
MacLean, Alexander F., and A. L. Stautzenberger, to Celanese Corp. Production and recovery of aqueous hydrogen peroxide solutions. 3,341,297, 9–12–67, Cl. 23—207.
MacLean, Allister N.: *See*—
Hearn, William R., MacLean, and Trusler. 3,354,091.
Maclean, Donald, to Truelove & Maclean, Inc. Hypodermic needle holders. 3,344,787, 10–3–67, Cl. 128—221.
MacLean-Fogg Lock Nut Co.: *See*—
Schwiebert, Phillip D. 3,298,324.
Schwiebert, Phillip D., and Kuchar. 3,315,617.
MacLennan, Daniel G. Combined simulated fireplace and cabinet. 3,360,317, 12–26–67, Cl. 312—204.
MacLennan, John R., to Honeywell Inc. Control apparatus for gas burners. 3,348,561, 10–24–67, Cl. 137—66.
MacLeod, David M.: *See*—
Ilnyckyj, Stephan, and MacLeod. 3,354,106.
MacLeod, David M., and D. M. Leggett, to Esso Research and Engineering Co. Method of manufacturing wax emulsions. 3,340,204, 9–5–67, Cl. 252—311.5.
MacLeod, Donald B.: *See*—
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Falk, Melvin L., and MacLeod. 3,312,885.
MacLeod, Donald B., to Ampex Corp. Servo control system and method in a helical scan recorder. 3,342,951, 9–19–67, Cl. 179—100.2.
MacLeod, Donald B., to Ampex Corp. Tension control for wideband recording system. 3,345,457, 10–3–67, Cl. 178—6.6.

MacLeod, Donald B., to Ampex Corp. Control system for wide-band recording and reproducing systems. 3,358,080, 12-12-67, Cl. 178—6.6.
MacLeod, Malcolm A. Apparatus for playing election game. 3,318,01, 5-9-67, Cl. 273—134.
MacLeod, Norman A. Method and apparatus for therapy of skin tissue. 3,315,665, 4-25-67, Cl. 128—24.5.
MacLeod, Norman A., 36% to R. W. Whann, 18% to W. A. Selle, and F. F. Reed. Means and method for exercising joints and improving blood and lymph circulation therein. 3,329,142, 7-4-67, Cl. 128—40.
MacLeod, Norman M., to Small Business Administration. Automatic transfer machine. 3,332,818, 7-25-67, Cl. 156—351.
Mac Leod, Roderick, R. H.: *See*—
Grunewald, Henry L. 3,348,590.
MacLyman, John J.: *See*—
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Brennan, James H., and MacMaster. 3,304,736.
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Ryan, John W., and MacMeekin. 3,311,388.
Ryan, John W., and MacMeekin. 3,337,985.
MacMillan, Bloedel and Powell River Ltd.: *See*—
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MacMillan, Charles W., to Bear Mfg. Co. Attaching means for wheel gauges and the like. 3,330,044, 7-11-67, Cl. 33—203.18.
MacMillan, Charles W., to Bear Mfg. Co. Indicating attachment for wheel alinement testers. 3,353,278, 11-21-67, Cl. 33—203.14.
MacMillan, Donald M. (deceased); and K. T. MacMillan, executor. Tire mold bead aligning apparatus. 3,309,737, 3-21-67, Cl. 18—18.
MacMillan, Francis S. K., to The Procter & Gamble Co. Para-(lower) alkoxybenzoylscopolamine. 3,312,709, 4-4-67, Cl. 260—292.
MacMillan, Francis S. K., to The Procter & Gamble Co. Antiperspirant composition. 3,326,768, 6-20-67, Cl. 167—90.
MacMillan, Kenneth T.: *See*—
MacMillan, Donald M. 3,309,737.
MacMillan Ring-Free Oil Co., Inc.: *See*—
McEachran, Paul R. 3,344,608.
MacMillan, Robert W., S. Mrozek, and R. J. Pearce, to United States of America, Army. Safety latch for hooks. 3,331,109, 7-18-67, Cl. 24—241.
Macmillan, William R., to Tilghman's Ltd. Compressors. 3,358,914, 12-19-67, Cl. 230—172.
MacMillin, David M., and A. C. Mueller, to Bell & Howell Co. Film speed sensing mechanism for cartridge camera. 3,312,158, 4-4-67, Cl. 95—10.
MacMullan, Eugene C.: *See*—
Farkas, George J., and MacMullan. 3,343,792.
MacMullen, Clinton W., to Olin Mathieson Chemical Corp. Water soluble film containing agriculture chemicals. 3,299,-566, 1-24-67, Cl. 47—1.
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Hicks, Clive L., and Macnab. 3,303,231.
MacNabb Engineering Co., Inc.: *See*—
Wadman, Sydney F. 3,329,581.
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Morgan, Charles I. 3,296,854.
MacNeil, Norman H., to Hewlett-Packard Co. Overload stop for pressure transducer. 3,353,410, 11-21-67, Cl. 73—406.
MacNeill, Arden B. Golf shoes. 3,311,999, 4-4-67, Cl. 36—2.5.
MacNeill, Arden B. Socket type adapter for torque-transmitting tools. 3,312,260, 4-4-67, Cl. 145—50.
MacNeill, Arden B. Ratchet screwdriver type hand tool. 3,330,316, 7-11-67, Cl. 145—72.
MacNeill, Arden B. Combined golf spike receptacle and anchoring strip. 3,343,284, 9-26-67, Cl. 36—66.
Maco Industries, Inc.: *See*—
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Macoicz, Edward L., and A. H. Fitzpatrick, to General Electric Co. Electric water heater circuit. 3,352,999, 11-14-67, Cl. 219—321.
Macoicz, Edward L., and A. H. Fitzpatrick, to General Electric Co. Electric water heater circuit. 3,353,001, 11-14-67, Cl. 219—321.
Macoicz, Edward L., and A. H. Fitzpatrick, to General Electric Co. Electric water heater circuit. 3,353,002, 11-14-67, Cl. 219—321.
Macoid Industries, Inc.: *See*—
Bradley, Stephen D. 3,297,800.
Macomber Inc.: *See*—
Glass, Russell G. 3,325,020.
Scott, Victor P. 3,302,357.
Macomber, James K., to Consolidated Lithographing Corp. Reading pacer. 3,302,309, 2-7-67, Cl. 35—35.
Macomber, James K. Speed control for reading pacer. 3,311,-998, 4-4-67, Cl. 35—35.
Macomber, James K., to Consolidated Lithographing Corp. Web attachment means for spools. 3,318,549, 5-9-67, Cl. 242—74.
Macomson, Wistar W., 50% to D. C. Page, Jr. Weft straightening apparatus and method. 3,296,676, 1-10-67, Cl. 26—51.3.
Macon, Charles E., R. S. Barton, P. A. Quantz, and G. T. Shimabukuro, to Burroughs Corp. Data processor. 3,354,-429, 11-21-67, Cl. 340—172.5.
Macon, Charles E., R. S. Barton, P. A. Quantz, and G. T. Shimabukuro, to Burroughs Corp. Variable length address computer. 3,359,542, 12-19-67, Cl. 340—172.5.
Macon, Charles E., R. S. Barton, and P. A. Quantz, to Burroughs Corp. Multiple program computer. 3,359,544, 12-19-67, Cl. 340—172.5.
Macovski, Albert, to Stanford Research Institute. Electronic motion detector. 3,336,585, 8-15-67, Cl. 340—258.
MacPeek, Donald L.: *See*—
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Marcus, Erich, and MacPeek. 3,358,008.
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Tinsley, Samuel W., Jr., and MacPeek. 3,337,587.
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MacPhail, Alexander C. B.: *See*—
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MacPhail, Alexander C. B., F. T. Barcroft, and C. B. Milne, to Shell Oil Co. Lubricating compositions containing EP agents. 3,297,574, 1-10-67, Cl. 252—46.7.
MacPhee, John, to American Machine & Foundry Co. Two pass pressure tube research reactor. 3,318,776, 5-9-67, Cl. 176—61.
MacPherson, Allan. Last with insole retaining device. 3,337,-888, 8-29-67, Cl. 12—141.
Macpherson, Ian A.: *See*—
Inman, Eric R., Smith, and Macpherson. 3,328,410.
Macpherson, John W. Bottle cap. 3,310,193, 3-21-67, Cl. 215—56.
Macpherson, John W., Sr. Apparatus and method for manufacturing flowers and like articles from plastic material. 3,331,098, 7-18-67, Cl. 18—1.
MacPherson, William G., to The Dow Chemical Co. Vinylidene chloride alkyl acrylate/acrylonitrile terpolymers and process for preparing the same. 3,297,666, 1-10-67, Cl. 260—80.5.
MacPlum, R. A., Industries, Inc.: *See*—
Umanoff, Martin. 3,317,841.
MacQuarrie, Allan B., and A. J. Sable, to Polaroid Corp. Photographic document copying apparatus. 3,344,728, 10-3-67, Cl. 95—75.
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Johnson, Robert L., and MacRae. 3,316,056.
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Lloyd, Paul F., and Macre. 3,330,710.
Macris, Dimitri T.: *See*—
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MacRitchie, Arthur L., and J. J. Heigl, to Esso Research and Engineering Co. Measuring system wherein time-voltage signals are converted to proportional pulse frequency signals for storage detection, and integration. 3,304,497, 2-14-67, Cl. 324—120.
Macrosonic Process Corp.: *See*—
Shaw, Robert P. 3,348,814.
Macrow, Lawrence. Air distribution device. 3,354,808, 11-28-67, Cl. 98—40.
Macrowski, Edwin L.: *See*—
Le Roy, Chester E., Barth, Macrowski, and Takata. 3,330,000.
MacSorley Olin L.: *See*—
Wissick, William P., and MacSorley. 3,341,824.
MacSorley, Olin L., to International Business Machines Corp. Latching stage for register with automatic resetting. 3,339,-145, 8-29-67, Cl. 328—92.
Macura, Karl, F. J. Schmitz, and E. Siggel, to Vereinigte Glanzstoff-Fabriken AG. Treatment of polyethylene terephthalate filaments for improved rubber adhesion. 3,297,-467, 1-10-67, Cl. 117—47.
Macura, Karl, F. J. Schmitz, and E. Siggel, to Vereinigte Glanzstoff-Fabriken AG. Treatment of polyethylene terephthalate filaments for improved rubber adhesion. 3,297,-468, 1-10-67, Cl. 117—47.
Macurdy, William B.: *See*—
Fought, Benjamin T., Macurdy, and Muir. 3,351,915.
Macwhyte Co.: *See*—
Riggs, Peter P. 3,318,082.
MacWilliams, Florence J., to Bell Telephone Laboratories, Inc. Cyclic and multiplication by 2 mod n permutation decoder for systematic codes. 3,308,429, 3-7-67, Cl. 340—146.1.
MacWilliams, Robert W., to Samuel Ward Mfg. Co., Inc. Display album. 3,344,794, 10-3-67, Cl. 129—20.
Macy, James B., Jr.: *See*—
Satterthwaite, James G., and Macy. 3,317,254.
Macy, Robert H.: *See*—
Steitle, James L., Macy, and Thomas. 3,347,052.
MacZura, George: *See*—
Pearson Alan, and MacZura. 3,358,937.
Maczuzak, Peter, to Lee-Norse Co. Rope tensioning apparatus. 3,326,356, 6-20-67, Cl. 198—208.
Madansky, Leslie E., to California Plasteck, Inc. Aircraft panel. 3,343,290, 9-26-67, Cl. 40—62.
Maddalozzo, Raymond J., to International Harvester Co. Fuel delivery valve and injection apparatus employing same. 3,309,024, 3-14-67, Cl. 239—5.
Maddalozzo, Raymond J., to International Harvester Co. Temperature compensated fuel injection pump. 3,311,100, 3-28-67, Cl. 123—140.
Madden, Clarence L., Jr. Bicycle steering wheel. 3,336,817, 8-15-67, Cl. 74—552.
Madden, Eugene, to Cox Instruments, Division Lynch Corp. Rupture proof filter assembly. 3,343,681, 9-26-67, Cl. 210—343.

Madden, Homer W. Container palletizing and depalletizing machine. 3,327,872, 6-27-67, Cl. 214—8.5.
Madden, James J., to Bell Telephone Laboratories, Inc. Article handling apparatus. 3,335,264, 8-8-67, Cl. 235—61.11.
Madden, John J.: *See*—
Welch, John L., Jr., Sellers, and Madden. 3,342,918.
Madden, William M., to United Aircraft Corp. Pressure actuated fluid seal. 3,354,649, 11-28-67, Cl. 60—271.
Maddi, Charles F. and L. N. Means for severing a thread chain. 3,358,630, 12-19-67, Cl. 112—252.
Maddi, Louis N.: *See*—
Maddi, Charles F. and L. N. 3,358,630.
Maddocks, Fred S.: *See*—
Dobbin, William J., Lessor, and Maddocks. 3,314,869.
Maddocks, Herbert. Heat exchangers. 3,308,879, 3-14-67, Cl. 165—167.
Maddox, De Wayne: *See*—
Bracken, Robert C., and Maddox. 3,304,764.
Maddox, James R.: *See*—
McPhaden, Bruce, and Maddox. 3,341,933.
Maddox, Robert B. Bolster for a bed. 3,319,269, 5-16-67, Cl. 5—12.
Maddox, William K.: *See*—
Wilson, Don R., and Maddox. 3,339,264.
Maddux, William R.: *See*—
McGahee, Welbourne D. 3,338,118.
McGahee, Welbourne D. 3,337,929.
Madejczyk, Leopold A.: *See*—
Burnside, Gilbert L., Madejczyk, and Strosberg. 3,300,-400.
Mader, Helmut: *See*—
Von Konig, Anita, Wolf, and Mäder. 3,334,006.
Von Konig, Anita, Wolf, and Mader. 3,340,058.
Mäder, Helmut, H. Ulrich, W. Puschel, and A. von König, to AGFA Aktiengesellschaft. Heat developable light-sensitive photographic material. 3,348,945, 10-24-67, Cl. 96—29.
Mader, Herman F.: *See*—
Wood, Robert L., Galusha, and Mader. 3,357,844.
Mader, Norbert K.: *See*—
Trofimow, Alex, Dearborn, and Mader. 3,313,757.
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Spence, Sydney P., Baker, Steiner, Madestau, and Rowe. 3,311,668.
Madey, Jesse M., and E. W. Travis, to United States of America, National Aeronautics and Space Administration. Satellite appendage tie-down cord. 3,350,084, 10-31-67, Cl. 244—1.
Madey, Marion J., to Poster Products, Inc., Display devices. 3,313,054, 4-11-67, Cl. 40—10.
Madge, Evelyn W.: *See*—
Bulgin, Douglas, Hubbard, and Madge. 3,307,605.
Madgwick George G., R. A. Walther, and W. J. Tabar, to Union Carbide Corp. Polymerization process. 3,334,081, 8-1-67, Cl. 260—94.9.
Madigan, Basil M., to Goodyear Aerospace Corp. Autofocus linkage. 3,317,269, 5-2-67, Cl. 352—140.
Madigan, Thomas M.: *See*—
Fairbanks, Henry N., and Madigan. 3,341,146.
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Wininger, Roy D., and Wilcox. 3,356,481.
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Koppelmann, Eldo K. 3,350,762.
Madison, Norman L.: *See*—
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Madison, Norman L., to The Dow Chemical Co. Process for preparation of dioxolanes. 3,324,145, 6-6-67, Cl. 260—340.9.
Madison, Norman L., to The Dow Chemical Co. Copolymerization of NF compound and formaldehyde. 3,354,211, 11-21-67, Cl. 260—564.
Madison Research & Development Corp.: *See*—
Cochran, William H., II. 3,348,992.
Madison, Theodore N., to Royal Typewriter Co., Inc. Plural space bar operated mechanism for controlling proportional escapements. 3,352,399, 11-14-67, Cl. 197—39.
Madison, Theodore N., and R. E. McGrath, to Royal Typewriter Co., Inc. Mechanism for locking the keyboard of electric typewriters or like machines. 3,349,886, 10-31-67, Cl. 197—107.
Madland, Glen R., to Motorola, Inc. Method of making integrated circuit by controlled process. 3,304,594, 2-21-67, Cl. 29—25.3.
Madland, Rolf A., to Parker-Hannifin Corp. Hydraulic cushion. 3,322,039, 5-30-67, Cl. 91—405.
Madland, Thorvald, to Youngstown Steel Door Co. Slip clutch for operating cranks under load. 3,295,256, 1-3-67, Cl. 49—219.
Madland, Thorvald, to Youngstown Steel Door Co. Door. 3,332,168, 7-25-67, Cl. 49—220.
Mador, Irving L., and J. A. Scheben, to National Distillers and Chemical Corp. Carbonylation of allylic halides. 3,309,403, 3-14-67, Cl. 260—544.
Mador, Irving L., and J. A. Scheben, to National Distillers and Chemical Corp. Preparation of halogenated unsaturated acids. 3,338,960, 8-29-67, Cl. 260—539.
Madrazo, Manuel G., and G. A. Cortina, to Process Millers, Inc. Process for nixtamalizing whole grain having an inherent moisture content. Re. 26,263, 9-5-67, Cl. 99—80.
Madrzyk, Edmund S., J. F. Collins, and A. Kramer, to Inland Steel Co. Method to improve impact properties of steels. 3,330,705, 7-11-67, Cl. 148—12.
Madsen, Elmer W., to The Superior Electric Co. Electric motor. 3,321,651, 5-23-67, Cl. 310—156.
Madsen, Eric V.: *See*—
Burns, Gordon K., and Madsen. 3,328,766.
Fracassi, Renato D., and Madsen. 3,296,458.
Madsen, Marvin J. Lock washer. 3,351,116, 11-7-67, Cl. 151—34.
Madsen, Paul S., to Rexall Drug and Chemical Co. Baseball and home plate. 3,341,199, 9-12-67, Cl. 273—25.
Madsen, Stanley W., and E. L. Payer, to Shieldalloy Corp. Nitrogen-containing alloy, and its preparation. 3,304,175, 2-14-67, Cl. 75—134.
Madson, Mayne M., to Maco Industries, Inc. Insertable elastic strip. 3,353,245, 11-21-67, Cl. 29—129.5.
Madurski, Joseph P.: *See*—
Taplin, Lael B., Datwyler, Madurski, and Thompson. 3,302,398.
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Maebashi, Yoshitsugu: *See*—
Okumoto, Takeomi, Okada, and Maebashi. 3,329,496.
Maeda, Haruo, to Matsushita Electric Industrial Co., Ltd. Superbroad bandwidth cathode-ray tube device. 3,325,663, 6-13-67, Cl. 313—30.
Maeda, Hisao: *See*—
Kawakami, Masamitsu, and Mochimaru. 3,355,645.
Maeda, Hisao. Parametron bridge circuit utilizing ferromagnetic thin film. 3,299,280, 1-17-67, Cl. 307—88.
Maeda, Hisao. Parametron, 3,324,305, 6-6-67, Cl. 307—88.
Maeda, Keiji, to Kabushiki Kaisha Kato Seisakusho. Apparatus for installing cardboard wick drain. 3,300,987, 1-31-67, Cl. 61—63.
Maeda, Keizo: *See*—
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Maeda, Seiichi, Y. Miyake, Y. Yanagisawa, and M. Hamamoto, to Toyo Koatsu Industries, Inc. Process for producing alpha-polyoxymethylene. 3,342,779, 9-19-67, Cl. 260—67.
Maeda, Shiu: *See*—
Sawa, Yoshiro, and Maeda. 3,300,500.
Maeda, Teizo, and Y. Mizobuchi, to Matsushita Electric Industrial Co., Ltd. Method of manufacturing film resistors. 3,334,396, 8-8-67, Cl. 29—620.
Maeder, Arthur: *See*—
Jaeger, Horst, Nachbur, and Maeder. 3,351,617.
Olaj, Oskar, Berger, Maeder, and Schaefer. 3,326,628.
Toepfl, Rosemarie, and Maeder. 3,351,618.
Toepfl, Rosemarie, Schibler, and Maeder. 3,352,838.
Maeder, Edward G.: *See*—
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Maeder, Erwin: *See*—
Siegrist, Adolf E., Maeder, Liechti, and Guglielmetti. 3,351,591.
Siegrist, Adolf E., Maeder, Liechti, and Guglielmetti. 3,351,592.
Maeder, Erwin, P. Liechti, and A. E. Siegrist, to Ciba Ltd. Optically brightened organic compositions. 3,328,310, 6-27-67, Cl. 252—301.2.
Maeder, Heinz J.: *See*—
Decker, Hanns, Maeder, and Wehren. 3,310,245.
Maeder, Heinz J., to Klöckner-Humboldt-Deutz Aktiengesellschaft. Vibratory grinding mill of the drum type. 3,295,-771, 1-3-67, Cl. 241—153.
Maehara, Akira. Rotary oil vacuum pump. 3,310,229, 3-21-67, Cl. 230—152.
Maehara, Shigeru, and I. Igarashi, to Yawata Iron & Steel Co., Ltd. and Yokoyama Engineering Co., Ltd. Apparatus for recovering unburned gases issued from metal refining furnaces. 3,333,839, 8-1-67, Cl. 266—35.
Maekawa, Akiji: *See*—
Takeda, Yasutsugu, and Maekawa. 3,359,500.
Takeda, Yasutsugu, Kaneko, Maekauwa, Sawada, Kimura, and Kuroda. 3,333,142.
Maemoto, Kenichi: *See*—
Kawasumi, Shobachi, Maemoto, and Onishi. 3,326,857.
Maenaka Valve Works Co., Ltd.: *See*—
Maenaka, Yoshio. 3,356,336.
Maenaka, Yoshio, to Maenaka Valve Works Co., Ltd. Airtight sealing device for a valve seat of a butterfly valve. 3,356,336, 12-5-67, Cl. 251—306.
Maennig, Heinrich, and F. Bolling, to Henschel-Werke A.G. Torsion bar assembly. 3,317,204, 5-2-67, Cl. 267—57.
Maeno, Minoru, to Kanegofuchi Roseki Kabushiki Kaisha, d.b.a. Kanegafuchi Spinning Co. Ltd. Plastic gripper button. 3,349,451, 10-31-67, Cl. 24—208.
Maerov, Sydney B., to E. I. du Pont de Nemours and Co. Fiber-forming condensation polyesters having enhanced resistance to photodegradation. 3,308,095, 3-7-67, Cl. 260—47.
Maerz Ofenbau, A.G.: *See*—
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Maes, Michel E., to Rocket Research Corp. Confined parallel rail pulsed plasma accelerator. 3,298,179, 1-17-67, Cl. 60—202.
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Maestre, Marcel, M. Lefebvre, and C. Kaziz, to Produits Chimiques Pechiney-Saint-Gobain. Method for treatment of water to effect purification and prevent fires. 3,356,610, 12–5–67, Cl. 252—8.

Maestre, Neil E., to United Aircraft Corp. Control circuit for voltage controlled oscillator. 3,311,751, 3–28–67, Cl. 307—88.5.

Maestrelli, Faffaello. Pneumatic-tired vehicle steered by vertical spaced guide track surfaces. 3,338,182, 8–29–67, Cl. 104—247.

Maffey, George E., Jr., to The Black and Decker Mfg. Co. Pivoted trigger means for power-operated reversible tool. 3,352,368, 11–14–67, Cl. 173—169.

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Mahler, Joseph, to American Optical Co. Diffusion transfer of dichroic iodine stain in vectograph production. 3,307,-946, 3–7–67, Cl. 96—29.

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Mahoney, Edward H., to Seismograph Service Corp. Hyperbolic continuous wave position finding system including ambiguity resolution. 3,303,502, 2–7–67, Cl. 343—105.

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Manwaring, Joshua G. D., to Radio Frequency Co., Inc. Radio frequency apparatus. 3,329,796, 7–4–67, Cl. 219—10.55.

Manwaring, Joshua G. D., to Radio Frequency Co. Inc. Radio frequency heating apparatus. 3,344,254, 9–26–67, Cl. 219—10.81.

Manwaring, William F., to E. I. du Pont de Nemours and Co. Process for dyeing microporous sheet material. 3,337,289, 8–22–67, Cl. 8—4.

Manyik, Robert M., W. E. Walker, and T. P. Wilson, to Union Carbide Corp. Continuous processes for the production of ethylene polymers and catalysts suitable therefor. 3,300,458, 1–24–67, Cl. 260—88.2.

Manyik, Robert M., W. E. Walker, and T. P. Wilson, to Union Carbide Corp. Polymerization process. 3,347,840, 10–17–67, Cl. 260—94.9.

Manz, August F., to Union Carbide Corp. Welding arc power supply. 3,304,485, 2–14–67, Cl. 321—8.

Manz, August F., and H. B. Sargent, to Union Carbide Corp. Method for eliminating weld puddle cracking. 3,350,539, 10–31–67, Cl. 219—137.

Manz, Curtis T. Movable window for a welder's helmet. 3,332,087, 7–25–67, Cl. 2—8.

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Mao, Tzu J., to General Motors Corp. Photopolymerization of acrylic resins using ultraviolet light and triphenylphosphine as photopolymerization initiators. 3,331,761, 7–18–67, Cl. 204—159.23.

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Marans, Nelson S., and F. A. Wessells. Polymerization of trioxane. 3,305,464, 2–21–67, Cl. 204—159.21.

Marans, Nelson S., and F. A. Wessells, to W. R. Grace & Co. Two step grafting using trapper radical system. 3,310,605, 3–21–67, Cl. 260—877.

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Marchioli, Giorgio. Tubular roof beams and joining means therefor. 3,300,935, 1–31–67, Cl. 52—468.

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Marcus, Erich, and D. L. MacPeek, to Union Carbide Corp. Trans-di(aluminoalkyl)cyclobutane polymers. 3,356,705, 12–5–67, Cl. 260—448.

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Margetts, John L. Igniter assembly for stoker-fired heaters and furnaces. 3,311,075, 3–28–67, Cl. 110—45.

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Marinace, John C., to International Business Machines Corp. Heat sink mounting for semiconductor devices. 3,351,698, 11–7–67, Cl. 174—15.
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Mariner, Thomas, to Armstrong Cork Co. Acoustical treatment structure. 3,333,524, 8–1–67, Cl. 93—40.
Maring, Aafko, to L. Stromeyer & Co. G.m.b.H. Removable surface coverings. 3,300,211, 1–24–67, Cl. 273—27.
Maring, Blayne E., W. J. Pendy, Jr., C. H. Grimm, and J. S. Johnson, to International Business Machines Corp. Variable angle card deck support. 3,351,341, 11–7–67, Cl. 271—87.
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Marino, Anthony P., to L. Marino, Inc. Portable ballast bags. 3,351,306, 11–7–67, Cl. 244—93.
Marino, Frank A. Trophy construction. 3,341,956, 9–19–67, Cl. 40—1.
Marino, Jesse L., to United States Steel Corp. Method and apparatus for cleaning exhaust gases from oxygen steelmaking furnaces. 3,315,443, 4–25–67, Cl. 55—85.
Marino, Joseph A., to Owens-Illinois, Inc. Reel for web-like material and blank therefor. 3,343,665, 9–26–67, Cl. 206—50.
Marino, Joseph P., to Electronic Instruments Corp. Electrical circuit control apparatus. 3,319,122, 5–9–67, Cl. 317—18.
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Marion, Hunter R. Photo-imprinter. 3,356,000, 12–5–67, Cl. 95—1.1.
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Mark, Victor, to Monsanto Co. Pesticides (D). 3,305,563, 2–21–67, Cl. 260—332.3.
Mark, Victor, to Monsanto Co. Substituted haloheptenes. 3,312,613, 4–4–67, Cl. 204—163.
Mark, Victor, to Monsanto Co. Substituted norbornene herbicides. 3,324,147, 6–6–67, Cl. 260—348.
Mark, Victor, to Monsanto Co. Substituted polychlorotrindene derivatives. 3,325,550, 6–13–67, Cl. 260—648.
Mark, Victor, to Monsanto Co. Chlorocarbons. 3,328,472, 6–27–67, Cl. 260—648.
Mark, Victor, to Monsanto Co. Pesticidal halocyclopentadiene adducts. 3,356,668, 12–5–67, Cl. 260—332.5.
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Marker, Hannes. Safety ski binding. 3,305,242, 2–21–67, Cl. 280—11.
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Marker, Hannes. Safety toe iron for ski bindings. 3,348,855, 10–24–67, Cl. 280—11.35.
Marker, Hannes. Toe iron for safety ski bindings. 3,348,856, 10–24–67, Cl. 280—11.35.
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Markham, Charles E., to Emerson Electric Co. Humidity controller with thermal relay. 3,312,398, 4–4–67, Cl. 236—44.
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Markowitz, Albert A. Combination electric broiler and electric stove. 3,316,389, 4–25–67, Cl. 219—454.
Markowitz, Jerome, to Allen Organ Co., Inc. Key biased reed switch for electronic musical instrument. 3,306,968, 2–28–67, Cl. 84—1.04.
Markowitz, Jerome, to Allen Organ Co., Inc. Electronic pipes. 3,327,044, 6–20–67, Cl. 84—1.01.
Markowitz, Jerome, and R. Hochleitner, Jr., to Allen Organ Co., Inc. Transient sound producing device. 3,334,172, 8–1–67, Cl. 84—1.6.
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Markowski, Stanley J., to United Aircraft Corp. Turbofan thrust reverser. 3,330,115, 7–11–67, Cl. 60—230.
Marks, Alexander A. Snow disposal units. 3,353,286, 11–21–67, Cl. 37—12.
Marks, Alfred L. Process for manufacturing organic fertilizer containing water soluble nitrogen from humic materials. 3,328,158, 6–27–67, Cl. 71—24.
Marks, Alvin M. Heat electrical power transducer. 3,297,887, 1–10–67, Cl. 310—4.
Marks, Alvin M. Electrically responsive light controlling device employing suspended dipole particles in a plastic film. 3,341,274, 9–12–67, Cl. 350—267.
Marks, Alvin M. Light polarizing structures. 3,350,982, 11–7–67, Cl. 88—24.
Marks, Alvin M. and M. M. Ultra violet light absorbing compositions having a suspension of submicron particles. 3,298,959, 1–17–67, Cl. 252—300.
Marks, Alvin M. and M. M. Casting composition for light polarizing film. 3,300,436, 1–24–67, Cl. 260—31.2.
Marks, Alvin M. and M. M. Laminator for securing continuous flexible film to a base. 3,322,598, 5–30–67, Cl. 156—382.
Marks, Alvin M. and M. M., C. L. Wilson, and B. L. Orofino; said Wilson and Orofino assignors to said A. M. and M. M. Marks. Abrasion resistant coating of organic polymer, inorganic polymer, and monomers reactive therewith. 3,324,055, 6–6–67, Cl. 260—17.
Marks, Alvin M., and M. M. Electrically conductive transparent materials. 3,357,930, 12–12–67, Cl. 252—518.
Marks, Burton S., and R. S. Sedgwick, to Continental Can Co., Inc. Resinous compositions comprising (A) butadiene-acrylonitrile-carboxylated terpolymer, (B) polyepoxide, (C) flexibilizing polymer, and (D) dicyandiamide. 3,312,754, 4–4–67, Cl. 260—837.
Marks, Burton S., and R. S. Sedgwick., to Continental Can Co., Inc. Adhesive compositions comprising carboxyl polymers and polyepoxides. 3,334,057, 8–1–67, Cl. 260—23.
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Marks, Franklin E., and D. G. Fischer, to Square D Co. Lay-in duct for electrical wiring. 3,312,251, 4–4–67, Cl. 138—158.
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Marks, Meyer, to Hazeltine Research Inc. Chrominance take-off circuit. 3,336,438, 8–15–67, Cl. 178—5.4.
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Marks, Alvin M. and M. M., Wilson, and Orofino. 3,324,055.
Marks, Mortimer M. Identifying apparatus employing fibers and polarized light. 3,313,941, 4–11–67, Cl. 250—219.
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Koda, Arthur J., Kutyla, and Marks. 3,359,455.
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Marks, Ronald H., to American Can Co. Method for producing a fabric. 3,331,222, 7–18–67, Cl. 66—202.
Marks, Ronald H., and R. H. Millard, to American Can Co. Apparatus for treating a web material. 3,323,298, 6–6–67, Cl. 57—32.
Marks, Theodore, and J. T. Gelardi, to American Technical Machinery Corp. Brush making apparatus. 3,322,467, 5–30–67, Cl. 300—2.
Marks, William J. Protective abdominal plate for use with vehicle safety belts. 3,300,247, 1–24–67, Cl. 297—385.

Marks, William M., and J. E. Ashworth, to Dresser Industries, Inc. Split hook hoisting apparatus. 3,351,372, 11–7–67, Cl. 294—81.

Marktscheffel, Fritz B., and W. C. Feist, to Esso Research and Engineering Co. Copolymers of aromatic heterocyclic compounds having ethylenically unsaturated side chain and alpha mono olefins. 3,332,919, 7–25–67, Cl. 260—88.1.

Markus, George, to Evans-Aristocrat Industries, Inc. Plastic sealing method and apparatus. 3,306,328, 2–28–67, Cl. 150—38.

Markwardt, Fritz, P. Walsmann, G. Schafer, and H. Topfer, to Veb Arzneimittelwerk Dresden. Hirudine from leeches and process for recovery thereof. 3,300,383, 1–24–67, Cl. 167—74.

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Marley, James E., and T. P. Warne, Jr., to AMP Inc. Electrical connections. 3,350,679, 10–31–67, Cl. 339—223.

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Marlow, Jacob, to Robertshaw Controls Co. Capacitance bridge circuit including a transformer for selective transformation of the input capacitance. 3,320,527, 5–16–67, Cl. 324—60.

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Marondel, Günther, to Dynamit Nobel Aktiengesellschaft. Display container. 3,343,659, 9–26–67, Cl. 206—45.31.

Maropis, Nicholas, to Aeroprojecta Inc. Method and apparatus applying vibratory energy. 3,295,349, 1–3–67, Cl. 72—283.

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Maroth, Arthur M. Radial roller anti-friction transmission. 3,296,880, 1–10–67, Cl. 74—424.8.

Maroth, Arthur M. Radial roller anti-friction transmission. 3,308,674, 3–14–67, Cl. 74—424.8.

Marotta, Nicholas G., and K. S. Ronai, to National Starch and Chemical Corp. Solid sauce bases. 3,300,319, 1–24–67, Cl. 99—144.

Marotta, Ralph, to Monsanto Co. Stable alkaline colloidal silica sols of low viscosity and processes for preparing same. 3,342,748, 9–19–67, Cl. 252—313.

Marotta, Ralph, and H. Teicher, to Monsanto Co. Organosilica aerogel deflocculent for aqueous mediums. 3,357,934, 12–12–67, Cl. 260—17.

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Platus, David L., Marovich, and Cunningham. 3,360,081.

Marple, Ernest H. Trailer construction. 3,315,973, 4–25–67, Cl. 280—34.

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Marquardt Corp., The: *See*—
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Marquardt, J. & J.: *See*—
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Marquardt, Julius F., to International Harvester Co. Fluid power steering system. 3,326,317, 6–20–67, Cl. 180—79.2.

Marquart, Gordon L. R., to Deere & Co. Vehicle planetary transmission and PTO. 3,354,729, 11–28–67, Cl. 74—15.84.

Marquart, Gordon L.R., and R. A. Michael, to Deere & Co. Vehicle planetary transmission with PTO. 3,352,166, 11–14–67, Cl. 74—15.84.

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Marquette, Edmond R. T. Blanket with changeable thickness varying panels. 3,331,088, 7–18–67, Cl. 5—334.

Marquette Tool and Die Co.: *See*—
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Marquis, David M., to Chevron Research Co. Linear alkyl aryl sulfonate detergent compositions. 3,325,422, 6–13–67, Cl. 252—383.

Marquis, David M., to Chevron Research Co. Noncaking straight-chain alkyl aryl sulfonate detergent compositions. 3,328,314, 6–27–67, Cl. 252—383.

Marquis, David M., to Chevron Research Co. Solubilization process. 3,330,775, 7–11–67, Cl. 252—363.5.

Marquis, David M., to Chevron Research Co. Higher alkylphenyl sulfamate salt compositions. 3,342,856, 9–19–67, Cl. 260—500.

Marquis, David M., to Chevron Research Co. Detergent bars having lime soap dispersing characteristics. 3,355,389, 11–28–67, Cl. 252—121.

Marquis, David M., to Chevron Research Co. Disulfonate anti-caking agents for straight-chain sulfonate detergents. 3,356,709, 12–5–67, Cl. 252—138.

Marquis, Donald P.: *See*—
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Marquis, James A., to Barlow Controls, Inc. Motor starting device including a surge limiter and cutout means. 3,327,197, 6–20–67, Cl. 318—430.

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Marra, Daniel A., Sr. Metal cutting torch. 3,299,939, 1–24–67, Cl. 158—27.4.

Marra, Ivan L., to Fre-Mar Industries. Tool for fabricating attachment clips. 3,352,142, 11–14–67, Cl. 72—387.

Marra, Lewis. Dual cartridge construction for repair product. 3,313,189, 4–11–67, Cl. 81—15.7.

Marraffino, Leonard L. Plural source heated fluid mixing head. 3,300,095, 1–24–67, Cl. 222—146.

Marraffino, Leonard L. Mixing head. 3,300,144, 1–24–67, Cl. 239—307.

Marraffino, Leonard L. Mixing head. 3,335,961, 8–15–67, Cl. 239—305.

Marraffino, Leonard L. Mixing head with secondary fluid adapted for connection with discharge means of primary fluid container. 3,338,479, 8–29–67, Cl. 222—193.

Marraffino, Leonard L. Heating and mixing device for aerosol dispensing. 3,341,079, 9–12–67, Cl. 222—136.

Marraffino, Leonard L. Spray head. 3,357,647, 12–12–67, Cl. 239—304.

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Marrapese, Marius W., and E. W. Wirth, to Autocrat Corp. Vent and air inlet assembly. 3,315,586, 4–25–67, Cl. 8—62.

Marriage, Edmund P. Apparatus for the bulk storage of particulate material such as grain. 3,312,022, 4–4–67, Cl. 52—169.

Marrinan, Henry J., and E. I. Riseley, to Imperial Chemical Industries Ltd. Fibrous, non-woven sheet materials and the production thereof. 3,317,335, 5–2–67, Cl. 117—11.

Marriner & Co., Inc.: *See*—
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Marsh, John A., and G. W. Armfield, to Marsh-Armfield. Cushion and method of manufacture. 3,335,435, 8–15–67, Cl. 5—355.

Marsh, John L., to Pyronetics, Inc. Explosive-operated valve. 3,332,432, 7–25–67, Cl. 137—68.

Marsh, John R., to Mobil Oil Corp. Reclosable dispenser. 3,333,690, 8–1–67, Cl. 206—57.

Marsh, John R., to Mobil Oil Corp. Dispenser pack. 3,341,003, 9–12–67, Cl. 206—57.

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Marshall, Don J., to Goodall Semi-Metallic Hose & Mfg. Co. Out of round gauge attachment for a wheel balancing stand. 3,315,366, 4–25–67, Cl. 33—172.

Marshall, Don J., to Goodall Semi-Metallic Hose & Mfg. Co. Industrial wheel balancing device. 3,335,611, 8–15–67, Cl. 73—484.

Marshall, Don J., to Goodall Semi-Metallic Hose & Mfg. Co. Wheel balancing stand. 3,352,161, 11–14–67, Cl. 73—484.

Marshall, Fay E., and W. A. K. Gould. Process of making ground conditioner. 3,335,019, 8–8–67, Cl. 106—135.

Marshall, George C., Jr. Wheel jack bracket. 3,300,183, 1–24–67, Cl. 254—133.

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Marshall, James C., J. A. McGurty, and G. Korton, to United States of America, Atomic Energy Commission. Refractory metal brazing product and process. 3,316,069, 4–25–67, Cl. 29—198.

Marshall, James C., and R. H. Mueller, United States of America, Atomic Energy Commission. Niobium-silicon brazing alloy for refractory metals. 3,317,288, 5–2–67, Cl. 29—198.

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Marshall, Maurice B., and D. H. MacDonald. Method of making thermoelectric generators. 3,300,840, 1–31–67, Cl. 29—155.5.

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Marshall, Preston F., to The Kendall Co. Slub yarn and process therefor. 3,332,227, 7-25-67, Cl. 57—144.

Marshall, Preston F., to The Kendall Co. Composite yarn and process therefor. 3,336,743, 8-22-67, Cl. 57—144.

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Marshall, Richard G., and J. C. Littmann, to Chrysler Corp. Vehicle automatic speed warning and speed control device. 3,322,226, 5-30-67, Cl. 180—106.

Marshall, Samuel J. E. Pumps. 3,299,823, 1-24-67, Cl. 103—119.

Marshall, Thomas R., to Sigmamotor, Inc. Apparatus for the injection of radio-opaque liquid in angiography. 3,313,291, 4-11-67, Cl. 128—2.

Marshall, Walton H., Jr. Process for production of hydrogen. 3,297,408, 1-10-67, Cl. 23—212.

Marshall, William B., deceased, (by C. E. Marshall, administratrix), and H. W. Norman; said Norman, assor. to Motorola Inc. Method of growing crystals having a triangular cross section. 3,335,035, 8-8-67, Cl. 148—1.6.

Marshall, William C. Floor protector mat for desk chair. 3,333,805, 8-1-67, Cl. 248—188.9.

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Martel, Jacques, E. Toromanoff, and C. Huynh, to Roussel UCLAF. Colchicine intermediates and preparation thereof. 3,329,694, 7-4-67, Cl. 260—410.9.

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Martel, Richard A., to General Precision, Inc. Electroluminescent display matrix with long persistence. 3,344,279, 9-26-67, Cl. 250—211.

Martel, Richard A., to General Precision, Inc. Electroluminescent-photoconductive display with long persistence. 3,344,280, 9-26-67, Cl. 250—213.

Martell, Fred, and C. Lefferson, to International Exhibits, Inc. Water gun and target with inflatable indicator. 3,336,030, 8-15-67, Cl. 273—101.

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Bitha, Panayota, Hlavka, and Martell. 3,341,586.

Martell, Michael J., Jr., and A. S. Tomcufcik, to American Cyanamid Co. 7-imidomethyl-6-demethyl-6-deoxytetracyclines. 3,345,379, 10-3-67, Cl. 260—326.13.

Martelli, Homer A., to Union Camp Corp. Display package having a channel for fluid dispensing to the outside. 3,333,684, 8-1-67, Cl. 206—45.31.

Martelli, Nerio, to Solvay & Cie. Automatic rotary machine for blowing hollow bodies, particularly bottles, of thermoplastic material. 3,344,471, 10-3-67, Cl. 18—5.

Martelli, Nerio, and E. Colinet, to Solvay & Cie. Process for the manufacture of hollow articles. 3,310,620, 3-21-67, Cl. 264—90.

Marten, Hans-Friedrich, to Siegener Maschinenbau G.m.b.H. Method and apparatus for controlling thickness of elongated workpieces. 3,315,507, 4-25-67, Cl. 72—16.

Marten, Jerome H., to Chemical Construction Corp. Synthesis of melamine. 3,328,401, 6-27-67, Cl. 260—249.7.

Marten, Jerome H., to Chemical Construction Corp. Urea synthesis process. 3,354,205, 11-21-67, Cl. 260—555.

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Martens, Alexander E., to Bausch & Lomb Inc. Temperature compensating system. 3,338,680, 8-29-67, Cl. 23—253.

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Martens, Herbert A.: *See*—
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Martens, Jack E., to American Motors Corp. Door lock striker. 3,350,128, 10-31-67, Cl. 292—341.12.

Martens, Jack E., to The Anderson Co. Position retaining device. 3,350,135, 10-31-67, Cl. 297—355.

Martens, Vincent A., and R. B. Reynolds, to Scovill Mfg. Co. Food mixer with combined beater ejector and latch release button on handle. 3,357,682, 12-12-67, Cl. 259—1.

Martensen, Uwe H., to International Harvester Co. Plow bottom positioner. 3,305,030, 2-21-67, Cl. 172—740.

Martensson, Kjell H., to AB Tetra Pak. Device for applying covering wafers, labels or the like to a continuously or intermittently advanced web of material. 3,325,335, 6-13-67, Cl. 156—498.

Martensson, Kjell H., to AB Tetra Pak. Device for producing a locally defined stamped and/or printed pattern repeated at predetermined intervals on a moving web of sheet material. 3,331,319, 7-18-67, Cl. 101—291.

Marter, Andre, and J. Taillardat, to Esso Standard Societe Anonyme Francaise. Preparation of oils of high solvent character. 3,303,125, 2-7-67, Cl. 208—264.

Marti, Markus, and M. Hoppe, to Inventa A.-G. fur Forschung und Patentverwertung. Process of hardening epoxide resin and product produced. 3,310,529, 3-21-67, Cl. 260—47.

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Martin, Alfred W., to Celanese Corp. Recovery of a trioxane from dilute solutions. 3,313,713, 4-11-67, Cl. 203—92.

Martin, Allan D., and I. S. Houvener, to The Dow Chemical Co. Extrusion apparatus and products therefrom. 3,358,329, 12-19-67, Cl. 18—14.

Martin, Alphonse. Film driving device for a motion picture apparatus. 3,357,780, 12-12-67, Cl. 352—166.

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Martin, Bart G., to Coin-Acceptors, Inc. Coin-selecting and separating apparatus. 3340,980, 9-12-67, Cl. 194—102.

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Martin, Calvin L., and J. C. Bolger, to Allied Chemical Corp. Device for releasing cutting tool. 3,299,747, 1-24-67, Cl. 77—55.

Martin, Carlyle J. Well-seal extractor. 3,307,632, 3-7-67, Cl. 166—85.

Martin, Charles L., to ACF Industries Inc. Carburetor. 3,304,047, 2-14-67, Cl. 251—118.

Martin, Charles M., to Automatic Electric Laboratories, Inc. Automatic telephone answering and message recording machine having fixed cycle of operation and remote callback. 3,337,690, 8-22-67, Cl. 179—6.

Martin, Chester T. Structural connection for beds and the like. 3,354,475, 11-28-67, Cl. 5—93.

Martin, Claude, E. J. Krollman, R. E. King, and R. D. Rumsey, to Houdaille Industries, Inc. Piston-type hydraulic damper. 3,352,386, 11-14-67, Cl. 188—96.

Martin, Claude C.: *See*—
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Martin, Claude R. M., to Societe Industrielle Bull-General Electric (Societe Anonyme). Actuating mechanism for printing hammers. 3,314,359, 4-18-67, Cl. 101—93.

Martin, Clyde G., to Conforming Matrix Corp. Spray painting apparatus including a workholder, mask and aligning means therefor. 3,356,069, 12-5-67, Cl. 118—301.

Martin, Clyde G., to Conforming Matrix Corp. Spray painting fixture. 3,356,070, 12-5-67, Cl. 118—301.

Martin, Constant. Electro-acoustic generator adapted to produce low frequency signals transformable into musical sounds by means of any amplifiers. 3,322,876, 5-30-67, Cl. 84—1.15.

Martin, Daniel W., to D. H. Baldwin Co. Multiple speaker sound output system for reducing intermodulation distortion. 3,327,043, 6-20-67, Cl. 84—1.01.

Martin, Daniel W., and A. B. Bereskin, to D. H. Baldwin Co. Pipe organ simulation circuits. 3,322,874, 5-30-67, Cl. 84—1.13.

Martin, Daryl T., to Waldorf Paper Products Co. Easy opening container. 3,302,857, 2-7-67, Cl. 229—51.

Martin, David A. Lint removing device. 3,336,616, 8-22-67, Cl. 15—104.

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Martin, David G.: *See*—
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Martin, Derek J., to D. Wickman & Co. Ltd. Method of erecting a mast. 3,354,599, 11-28-67, Cl. 52—741.

Martin, Derek J., and M. C. Curtis, to Ferranti, Ltd. Multiplex servo system for servo motors mechanically connected in series. 3,309,588, 3-14-67, Cl. 318—19.

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Martin, Edward R., to Phillips Petroleum Co. Bottle crates. 3,334,768, 8-8-67, Cl. 220—21.

Martin, Elmer L., J. J. MacLyman, and C. L. Kelsey, to Northrop Corp. Captive screw fastener. 3,343,581, 9-26-67, Cl. 151—69.

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Martin, Elmore L., to E. I. du Pont de Nemours and Co. Polycyclic diamines. 3,347,919, 10-17-67, Cl. 260—563.

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Martin, Frank V. Golf putting practice device. 3,345,072, 10-3-67, Cl. 273—177.

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Martin, George J., to The American-Coleman Co. Adjustment means for the pivot bearings of steerable drive wheels. 3,326,313, 6-20-67, Cl. 180—48.

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Martin, Gerald E., and D. G. Sprigings, to H. K. Porter Co., Inc. Current conductor rail system. 3,341,670, 9-12-67, Cl. 191—32.

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Martin, Henry, P. Schmidt, and M. Wilhelm, to Ciba Corp. Anthelmintic compositions and methods of using same. 3,340,144, 9-5-67, Cl. 167—53.

Martin, Henry, P. Schmidt, and M. Wilhelm, to Ciba Corp. Carbanilide compositions and methods of using same. 3,340,145, 9-5-67, Cl. 167—53.

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Martin, James C., to Eastman Kodak Co. 2,2-dialkyl-3-alkoxy cyclobutanone derivatives. 3,312,741, 4-4-67, Cl. 260—586.

Martin, James C., to Eastman Kodak Co. Hydrogenation of aminovinyl ketones. 3,325,491, 6-13-67, Cl. 260—247.7.

Martin, James C., to Eastman Kodak Co. 3-amidocyclobutanone and 3-amidocyclobutanol compounds. 3,328,392, 6-27-67, Cl. 260—239.3.

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Martin, Robert L., to C. E. Gutentag, P.B.A. Aublication Engineers. Micro-miniature relay. 3,335,376, 8–8–67, Cl. 335—125.

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Martinek, Thomas W., to Union Oil Co. of California. Apparatus for corrugating and compressing a tubular material. 3,343,220, 9–26–67, Cl. 18—19.

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Martinek, Thomas W., and D. L. Klass, to The Union Oil Co. of California. Method of preparing carbamates. 3,335,139, 8–8–67, Cl. 260—247.2.

Martinet, Andre, to Societe Anonyme Francaise des Appareils Automatiques Taximetres-Taxophones-S.A.F.A.A. Parking meters for vehicles. 3,338,510, 8–29–67, Cl. 232—1.

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Martino, Louis J., W. E. Moll, and R. E. Weimer, to McDonalds System, Inc. Waste receptacle. 3,306,486, 2–28–67, Cl. 220—1.

Martino, Louis J., and H. R. Blaese, to Systems, Inc. Method of and apparatus for cooking. 3,326,692, 6–20–67, Cl. 99—111.

Martinola, Friedrich, and G. Siegers, to Farbenfabriken Bayer Aktiengesellschaft. Process for regenerating strongly acid cation exchangers with sulphuric acid. 3,342,756, 9–19–67, Cl. 260—2.2.

Martinot-Lagarde, Philippe: *See—*
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Martinovich, Robert J.: *See—*
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Martins, Joseph G., to Monsanto Co. Polyvinyl alcohol compositions plasticized with monophenyl ethers of polyoxy ethylene glycols. 3,346,530, 10–10–67, Cl. 260—33.2.

Martland, Theodore H. Light bulb protector. 3,300,637, 1–24–67, Cl. 240—102.

Martner, John G., to Stanford Research Institute. Apparatus for identifying bond defects. 3,335,602, 8–15–67, Cl. 73—67.1.

Martner, John G., to Stanford Research Institute. Aerosol generator. 3,357,641, 12–12–67, Cl. 239—102.

Martner, John G., and P. D. Neketin, to Gerber Products Co. Non-destructive testing method and apparatus for canned liquid material. 3,357,556, 12–12–67, Cl. 209—73.

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Martwick, Wilford E., and D. C. Youmans, to Honeywell Inc. Combined rifle and grenade launcher. 3,332,162, 7–25–67, Cl. 42—1.

Martyn, Lloyd G., and A. B. Tooley, to Motorola, Inc. Crystal structure. 3,336,487, 8–15–67, Cl. 310—9.5.

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Marullo, Gerlando, U. Maffezzoni, and E. Susa, to Montecatini Edison S.p.A. Process of producing crystalline syndiotactic 1,2-polybutadiene. 3,300,466, 1–24–67, Cl. 260—94.3.

Marullo, Gerlando, G. Perri, and G. Tubiello, to Montecatini Edison S.p.A. Selective dissolution of sodium chloride from kainite minerals with water containing added surface active agents. 3,345,142, 10–3–67, Cl. 23—312.

Maruman Co., Ltd.: *See—*
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Marumo, Hideo: *See—*
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Tomiyama, Shinichi, Marumo, and Takai. 3,297,653.
Tomiyama, Shinichi, Marumo, and Takai. 3,299,006.

Marumo, Hideo, M. Ninomiya, Y. Matsuzaki, and M. Takai, to Lion Yushi Kabushiki Kaisha. Method of preventing electric charging of liquid hydrocarbons. 3,359,086, 12–19–67, Cl. 44—63.

Marumo, Hirofuto, and K. Saito, to Kyowa Hakko Co., Ltd. Ornithine aspartate and a process for its preparation. 3,360,549, 12–26–67, Cl. 260—501.11.

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Marusak, Francis J., to Corning Glass Works. Method of making high strength glass articles. 3,301,649, 1–31–67, Cl. 65—30.

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Marx, John W., W. B. Belknap, and J. C. Trantham, to Phillips Petroleum Co. Process and apparatus for combination upgrading of oil in situ and refining thereof. 3,310,109, 3–21–67, Cl. 166—7.

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Marx, Joseph P., to Midas International Corp. Muffler with baffles formed as chordal flanges. 3,313,373, 4–11–67, Cl. 181—59.

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Marx, Walter S., Jr., and C. P. Collier, to Printing Arts Research Laboratories, Inc. Method for transfer of graphic images. 3,330,711, 7–11–67, Cl. 156—234.

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Marxer, Adrian, to Ciba Corp. 1-ethyl-4,5-di-(para-methoxyphenyl)-imidazole and a salt thereof. 3,351,628, 11–7–67, Cl. 260—309.

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Marzluff, William F., to American Cyanamid Co. Molybdenum trioxide complex with diethylenetriamine. 3,349,108, 10–24–67, Cl. 260—429.

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Marzocchi, Alfred, to Owens-Corning Fiberglas Corp. Method of making a tire molding compound. 3,334,166, 8–1–67, Cl. 264—136.

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Marzocchi, Alfred, and A. E. Beaudoin, to Owens-Corning Fiberglas Corp. Method of coating yarn. 3,298,854, 1–17–67, Cl. 117—72.

Marzocchi, Alfred, and F. J. Lachut, to Owens-Corning Fiberglas Corp. Tire construction employing novel reinforcing system. 3,311,152, 3–28–67, Cl. 152—359.

Marzocchi, Alfred, and A. W. Brown, to Owens-Corning Fiberglas Corp. Tire construction with improved reinforcement. 3,315,722, 4–25–67, Cl. 152—359.

Marzocchi, Alfred, J. M. O'Flahavan, deceased (by L. C. O'Flahavan, administratrix), to Owens-Corning Fiberglas Corp. Resinous coated glass fiber yarn and fabric woven therefrom. 3,323,975, 6–6–67, Cl. 161—85.

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Marzocchi, Alfred, and J. J. Dillon, to Owens-Corning Fiberglas Corp. Fibrous blends and method of manufacture. 3,359,717, 12–26–67, Cl. 57—140.

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Matthews & Birkhamshaw Ltd.: *See*—
Matthews, Denis. 3,327,498.
Matthews, Denis. 3,352,264.
Matthews, Charles S., and R. D. Seba, to Shell Oil Co. Steam drive with viscous volatile buffer. 3,347,313, 10–17–67, Cl. 166—11.
Matthews, Clifford N., and J. S. Driscoll, to Monsanto Research Corp. Triphenylphosphonium methylene triphenylphosphorane complex Group III metal hydrides. 3,303,220, 2–7–67, Cl. 260—606.5.
Matthews, Curtis J., to Dover Corp. Vehicle lift. 3,338,334, 8–29–67, Cl. 187—8.59.
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Loveless, Frederick C., and Matthews. 3,322,735.
Matthews, Denis, to Matthews & Birkhamshaw Ltd. Looping needle for forming knitted loops. 3,327,498, 6–27–67, Cl. 66—121.
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Matthews, Donald R., to United States of America, Navy. Hybrid injector. 3,310,950, 3–28–67, Cl. 60—251.
Matthews, Edmund W., to The Mining Engineering Co., Ltd. Idler for belt conveyors. 3,313,168, 4–11–67, Cl. 74—230.3.
Matthews, Fredric A.: *See*—
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Matthews, George A., to Ericsson Telephones Ltd., Engineers and Manufacturers of Telephone Works. Telecommunication line class identifier having inductive coupling means. 3,360,611, 12–26–67, Cl. 179—18.
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Matthews, John T., to Wil-Mat Corp. Rocker mechanism. 3,333,811, 8–1–67, Cl. 248—376.
Matthews, Richard A., to Samuel Moore and Co. Composite tubing method of manufacture. 3,310,447, 3–21–67, Cl. 156—244.
Matthews, Richard A., and H. A. Johansen, to Samuel Moore and Co. Composite tubing product. 3,315,703, 4–25–67, Cl. 138—111.
Matthews, Robert B., to The Plessey Co. Ltd. Control of the fuel supply to a gas turbine. 3,313,106, 4–11–67, Cl. 60—39.28.
Matthews, Robert B., and J. P. Whitehead, to Plessey-UK Ltd. Liquid fuel supply systems for gas turbines. 3,295,314, 1–3–67, Cl. 60—39.28.
Matthews, Robert D., to The Taylor-Winfield Corp. Spot welder electrode cleaning device. 3,313,909, 4–11–67, Cl. 219—86.
Matthews, Robert E.: *See*—
Freelander, Abraham L., Matthews, and Garrett. 3,343,-350–55.
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Matthews, William E.: *See*—
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Matthews, William R. Making of cellulose pulp. 3,305,432, 2–21–67, Cl. 162—72.
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Mattick, James L., to Firth Cleveland Fastenings Ltd. Self-locking nut and method of manufacturing the same. 3,354,-926, 11–28–67, Cl. 151—21.
Mattil, Howard F., to Phelps Dodge Copper Products Corp. Method and apparatus for corrugating tubes. 3,323,339, 6–6–67, Cl. 72—78.
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Mattimore, John D., and A. McCutchan, to Chemetron Corp. Insulated pipe joint. 3,328,053, 6–27–67, Cl. 285—50.
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Mattingly, Denis A. E., to The Klinger Mfg. Co. Ltd. Method of crimping yarn. 3,302,264, 2–7–67, Cl. 28—72.
Mattingly, Denis A. E., to The Klinger Mfg. Co. Ltd. Apparatus for driving and supporting a spindle. 3,304,706, 2–21–67, Cl. 57—77.45.
Mattingly, Denis A. E., to Klinger Mfg. Co. Apparatus for twisting yarn. 3,316,699, 5–2–67, Cl. 57—93.
Mattingly, Denis A. E., to The Klinger Mfg. Co. Ltd. Driving transmissions for high speed rotary spindles. 3,355,870, 12–5–67, Cl. 57—77.45.
Mattingly, Denis A. E., to The Klinger Mfg. Co. Ltd. Transmission means for driving and rotating false twist spindles. 3,355,871, 12–5–67, Cl. 57—77.45.
Mattingly, Denis A. E., and R. S. Gilchrist, to The Klinger Mfg. Co. Ltd. Apparatus for false twist-crimping of yarn. 3,336,738, 8–22–67, Cl. 57—34.
Mattingly, Denis A. E., and R. S. Gilchrist, to The Klinger Mfg. Co., Ltd. Apparatus for continuously winding threads and like filamentary material on to a succession of bobbins. 3,345,003, 10–3–67, Cl. 242—18.
Mattingly, Denis A. E., and R. S. Gilchrist, to The Klinger Mfg. Co., Ltd. Control of yarn in circular knitting machines. 3,359,759, 12–26–67, Cl. 66—125.
Mattingly, Lawrence J., to Cadre Industries Corp. Terminal box. 3,299,199, 1–17–67, Cl. 174—50.
Mattioli, Danilo, and G. Multipurpose machine tool having a toolholder slide adapted to move on arcuate guideways. 3,339,459, 9–5–67, Cl. 90—26.
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Mattis, Weat C., to E. I. du Pont de Nemours and Co. Process of preparing organic esters of cellulose. 3,336,290, 8–15–67, Cl. 260—230.
Mattil, Hans P., to Twin Disc Clutch Co. Combined hydraulic coupling and friction clutch power transmission. 3,326,338, 6–20–67, Cl. 192—3.3.
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Mattor, John A., to S. D. Warren Co. Electrophotographic process and element comprising N,N,N′,N′-tetrasubstituted-p-phenylenediamines. 3,314,788, 4–18–67, Cl. 96—1.5.
Mattox, Donald M., to United States of America, Atomic Energy Commission. Apparatus for coating a cathodically biased substrate from plasma of ionized coating material. 3,329,601, 7–4–67, Cl. 204—298.
Mattox, William J.: *See*—
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Gladrow, Elroy M., and Mattox. 3,329,628.
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Mattox, William J., to Esso Research and Engineering Co. Separating alpha monoolefins using a steamed faujasite molecular sieve. 3,331,882, 7–18–67, Cl. 260—677.
Mattox, William J., to Esso Research and Engineering Co. Separating linear monoolefins by adsorption on a molecular sieve. 3,360,582, 12–26–67, Cl. 260—677.
Mattox, William J., and G. P. Hamner, to Esso Research and Engineering Co. Separation of linear aliphatic monoolefins from hydrocarbons by distilling with a nitrile. 3,312,602, 4–4–67, Cl. 203—53.
Mattox, William J., and G. P. Hamner, to Esso Research and Engineering Co. Hydrocarbon conversion catalysts containing a manganese promoter on a crystalline zeolite for the hydrocracking of hydrocarbons. 3,329,604, 7–4–67, Cl. 208—111.
Matts, Sigvard, and L.-O. Grudeborn, to Aktiebolaget Svenska Flaktfabriken. Method for air-conditioning a plurality of rooms. 3,360,031, 12–26–67, Cl. 165—2.
Mattson, Arne, and B. Angersson, to Allmanna Svenska Elektriska Aktiebolaget. Heavy hoisting crane. 3,318,463, 5–9–67, Cl. 212—48.
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Mattson, Charles A., F. O. Ottosen, deceased (by H. Ottosen, executrix), and M. R. Olsen, to Sunbeam Corp. Auxiliary handle for trimmer-edger. 3,341,235, 9–12–67, Cl. 287—57.
Mattson, Donald B. Conveyor belt link construction. 3,331,-489, 7–18–67, Cl. 198—189.
Mattson, Frank K., W. H. Owen, and D. R. Brabant, to Martin-Marietta Corp. Adjustable support arrangement. 3,338,433, 8–29–67, Cl. 214—16.4.
Mattson, John R., to Minnesota Mining and Mfg. Co. Process for preparing fluorinated compounds. 3,326,928, 6–20–67, Cl. 260—289.
Mattson, Merle E. Tree or plant protector collar. 3,305,-969, 2–28–67, Cl. 47—25.
Mattson, Rodney A., to General Electric Co. X-ray spectrometer having an X-ray source with a continuously cleaned X-ray target. 3,334,228, 8–1–67, Cl. 250—51.5.
Mattson, Roy H., to The Regents of the University of Minnesota. Neuristor and process for making the same. 3,325,652, 6–13–67, Cl. 307—88.5.
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Mattsson, Sture B., to Borgs Fabriks AB. Switching means for track system. 3,348,497, 10–24–67, Cl. 104—130.
Matty, Pete. Coffee makers or the like. 3,334,571, 8–8–67, Cl. 99—283.
Matuki, Koitiro, Y. Hirano, and T. Sunahara. Hermetically sealed motor-compressor. 3,306,524, 2–28–67, Cl. 230—58.
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Matwijcow, John J. Interlocked blade and holder having resilient latching means. 3,317,998, 5–9–67, Cl. 30—338.
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Matyckas, Stanley J., to Radio Corp. of America. Transistor protection circuit for radio transmitter. 3,345,570, 10–3–67, Cl. 325—150.

Matz, Samuel A., E. G. Linke, and D. E. Mook, to The Borden Co. Preservation of unbaked bakery products with an antibiotic peptide and the resulting product. 3,295,989, 1–3–67, Cl. 99—90.

Matz, Samuel A., E. G. Linke, and D. E. Mook, to The Borden Co. Dough composition and process for preparing same. 3,356,506, 12–5–67, Cl. 99—90.

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Kurkjy, Raymond P., Matzner, and Cotter. 3,312,660.
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Kurkjy, Raymond P., Matzner, and Cotter. 3,312,662.

Matzner, Markus, and C. N. Merriam, to Union Carbide Corporation. Condensation polymers from tetrahalobutane-1,4-diols. 3,326,855, 6–20–67, Cl. 260—47.

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Mauchel, Derek J., to Communications Patents Ltd. Electronic type composing apparatus utilizing a plurality of different type faces. 3,349,172, 10–24–67, Cl. 178—6.8.

Maucher, Paul, to Luk Lamellen und Kupplungsbau Gesellschaft mit beschrankter Hoftung, Buhl/Baden. Friction clutch. 3,337,016, 8–22–67, Cl. 192—68.

Maucher, Paul, to Luk Lamellen und Kupplungsbau G.m.b.H. Vehicle clutch with disc spring operator. 3,340,973, 9–12–67, Cl. 192—68.

Maucher, Paul, to Luk Lamellen und Kupplungsbau Gesellschaft mit beschrankter Haftung. Friction clutch, especially for motor vehicles. 3,340,974, 9–12–67, Cl. 192—68.

Mauchline, William J., to Associated Products, Inc. Tobacco sales ticket holder. 3,325,929, 6–20–67, Cl. 40—11.

Mauck, Robert J. Vehicle wheel support for trailers and the like. 3,334,912, 8–8–67, Cl. 280—81.

Mauclet, Maurice. Sinking of shafts and galleries in hand and water-bearing ground. 3,299,643, 1–24–67, Cl. 61—36.

Maude, Edward, to Calmic Ltd. Maintenance of urinals, water closet basins and the like. 3,358,299, 12–19–67, Cl. 4—225.

Maude, Edward, to Calmic Ltd. Maintenance of urinals, water closet basins and the like. 3,359,063, 12–19–67, Cl. 21—58.

Maudinet, Louis, V. Ziegelmeyer, and R. Dintzner, to Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique Alcatel and Societe de Transactions Commerciales et Industrielles entre la France et l'Allemagne, in abbreviation, S.O.T.R.A.F.A. Remote control manipulation of inaccessible objects. 3,301,588, 1–31–67, Cl. 294—110.

Mauduech, Robert R., R. P. Gouttebel, L. A. Proutiere, and E. L. Communal. Subscriber's line equipment for time-division telephone concentrator. 3,303,287, 2–7–67, Cl. 179—18.

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Maul, John A., to Addressograph-Multigraph Corp. Variable data print control and interlock means in printing machines. 3,322,062, 5–30–67, Cl. 101—45.

Maul, Lloyd L., to Bell Telephone Laboratories, Inc. Supervisory circuit for telephone subscriber's line. 3,321,583, 5–23–67, Cl. 179—18.

Mauldin, John H. Drier and mixer for aggregate and binder. 3,347,533, 10–17–67, Cl. 259—156.

Mauldin, William L., to Deering Milliken Research Corp. Process of modifying cellulosic textiles with epihalohydrin-triazone reaction products. 3,301,631, 1–31–67, Cl. 8—116.2.

Maule, Frank A. Survey stake protector. 3,300,918, 1–31–67, Cl. 52—103.

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Maulini, Maurizio, to Azionaria Costruzioni Macchine Automatiche A.C.M.A. S.p.A. Apparatus for grouping articles into piles. 3,338,370, 8–29–67, Cl. 198—24.

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Maupas, Jean-Pierre: *See*—
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Maupas, Jean-Pierre. Roller face suction box for paper making machine. 3,351,523, 11–7–67, Cl. 162—373.

Maupin, Joseph T. Semiconductor condition responsive phase shift oscillators. 3,345,582, 10–3–67, Cl. 331—108.

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Maurer, Edward C. Seat belt switch. 3,343,622, 9–26–67, Cl. 180—82.

Maurer, Elmer W., A. J. Stirton, and J. K. Well, to United States of America, Agriculture. Method of preparing substantially pure amino acid salts of alkyl sulfuric acids. 3,305,578, 2–21–67, Cl. 260—459.

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Maurer, John A.: *See*—
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Maurer, John A., to The Weber Dental Mfg. Co. Fluid-driven dental handpiece construction. 3,298,103, 1–17–67, Cl. 32—27.

Maurer, John A., to The Weber Dental Mfg. Co. Dental handpiece construction. 3,314,153, 4–18–67, Cl. 32—27.

Maurer, John A., and K. R. Lappin, to Weber Dental Mfg. Co. Dental instrument unit construction. 3,346,957, 10–17–67, Cl. 32—22.

Maurer, John A., K. R. Lappin, and D. H. Buchtel, to The Weber Dental Mfg. Co. Dental foot control construction. 3,359,638, 12–26–67, Cl. 32—28.

Maurer, John L., and J. W. Davidson, to The Eagle-Picher Co. Forming mandrel free method for corrugated hose. 3,333,036, 7–25–67, Cl. 264—94.

Maurer, John W., and J. P. Quine, to United States of America, Army. Passive device for obtaining independent amplitude and phase control of a UHF or microwave signal. 3,346,823, 10–10–67, Cl. 333—11.

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Maurer, Leon H., to Westworld Artists Productions Inc. Method of producing colored animated cartoons. 3,301,626, 1–31–67, Cl. 352—38.

Maurer, Leon H. Torque converter. 3,329,031, 7–4–67, Cl. 74—112.

Maurer, Oscar, to Turbo Separator Ag. Centrifuge for separating solids from liquids. 3,333,765, 8–1–67, Cl. 233—22.

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Maurer, Richard P., and A. A. Aykanian, to Monsanto Co. Method for producing a uniform foamed surface on a plastic article. 3,324,211, 6–6–67, Cl. 264—45.

Maurer, Robert. Meters for measuring the mass flow of fluids. 3,308,662, 3–14–67, Cl. 73—231.

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Mauri, Salvatore. Rectilinear loom of the "pick-pick" type. 3,310,071, 3–21–67, Cl. 139—122.

Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Braking device, especially for automotive vehicles. 3,305,051, 2–21–67, Cl. 188—152.

Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Declutching device for obviating wear adjustment. 3,307,667, 3–7–67, Cl. 192—91.

Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Clutch diaphragm spring with resilient cushion. 3,323,624, 6–6–67, Cl. 192—89.

Maurice, Jean, to Société Anonyme Francaise du Ferodo. Clutch friction system. 3,327,820, 6–27–67, Cl. 192—55.

Maurice, Jean. Rotary-contact potentiometers. 3,339,166, 8–29–67, Cl. 338—155.

Maurice, Pierre, P. Girard, and P. Fenaille, to La Soudure Autogene Francaise. Organic materials destructor. 3,345,960, 10–10–67, Cl. 110—8.

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Maurin, Paul. Double-twisting device for textile yarns. 3,296,787, 1–10–67, Cl. 57—58.81.

Mauro, Anthony. Pivotable sash window. 3,348,335, 10–24–67, Cl. 49—181.

Maursey, Ethan K., to General Motors Corp. Coupling. 3,302,430, 2–7–67, Cl. 64—6.

Maurushat, Joseph, Jr., to Bell Telephone Laboratories, Inc. Multifrequency signal receiver circuit. 3,319,011, 5–9–67, Cl. 179—84.

Maus, Arthur E., to Thoreson-McCosh, Inc. Apparatus for treating plastic materials. 3,325,913, 6–20–67, Cl. 34—174.

Maus, Arthur E., to Thoreson-McCosh, Inc. Plastic material dryer. 3,337,969, 8–29–67, Cl. 34—174.

Maus, Burns R., to Cooper-Stanley Co., Inc. Striping device. 3,352,283, 11–14–67, Cl. 118—301.

Mauseth, Robert E.: *See*—
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Mausner, Marvin L., to Witco Chemical Co., Inc. Process for producing dihydroxydiphenyl sulfone. 3,318,956, 5–9–67, Cl. 260—607.

Mausolf, Melvin J., to Dorr-Oliver Inc. Apparatus and method for the purification treatment of liquids through flocculation. 3,338,827, 8–29–67, Cl. 210—46.

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Mausteller, John W., to Mine Safety Appliances Co. Surgical puncturing device. 3,338,239, 8–29–67, Cl. 128—329.

Mausteller, John W., and S. J. Rodgers, to Mine Safety Appliances Co. Method for determination of combined oxygen in liquid alkali metals. 3,323,050, 5–30–67, Cl. 324—65.

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Mauthe, Gustav: *See*—
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Mauz, Otto, and C. Heuck, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyalkylene oxides stabilized with an amine and an aliphatic thioether. 3,360,499, 12–26–67, Cl. 260—45.8.

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Benoit, Gerard, Ferdy and Franz Mayer, and Thomas. 3,350,681.
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Mayo, Edward E., and R. H. Lambeth, to United States of America, National Aeronautics and Space Administration. Hypersonic reentry vehicle. 3,301,507, 1-31-67, Cl. 244—1.
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McBride, Robert B., R. T. Nelson, D. L. McKinley, and R. S. Hovey, to Union Carbide Corp. Hydrogen continuous production method and apparatus. 3,336,730, 8–22–67, Cl. 55—16.

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McCarthy, Daniel N., to Anchor Hocking Glass Corp. Color ornamentation of glass articles. 3,346,410, 10–10–67, Cl. 117—8.
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McCarthy, Robert J., and I. J. Sobel, to Sonotone Corp. Rechargeable battery assembly with reverse polarity charge protection. 3,321,690, 5–23–67, Cl. 320—6.
McCarthy, Thomas A. F. X. Lens stop. 3,340,061, 9–5–67, Cl. 96—45.
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McClive, Ralph T., to Eastern Fabricating Co., Inc. Casket trim with spaced side member stiffeners. 3,344,494, 10–3–67, Cl. 27—19.
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McColl, John D., and G. Frangatos, to Frank W. Horner, Ltd. Quaternary ammonium salts of morpholinoethyl 3,4,5-trimethoxybenzoate. 3,350,396, 10–31–67, Cl. 260—247.1.
McCollegan, Fred J. Tire covers. 3,326,259, 6–20–67, Cl. 150—52.
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Sanders, Grady H., and McCollough. 3,347,033.
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McCollough, John K., and G. H. Sanders, to Deering Milliken Research Corp. Bobbin handling system. 3,334,740, 8–8–67, Cl. 209—111.7.
McCollum, Burton, deceased; P. R. Powe and Bank of The Southwest National Association, executors. Method of frequency discrimination. 3,300,753, 1–24–67, Cl. 340—15.5.
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McConnell, John R. Structural steel fabricating process. 3,331,939, 7–18–67, Cl. 219—78.
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McConnell, Kennedy, to Interlake Steel Corp. Pallet rack. 3,348,698, 10–24–67, Cl. 211—24.
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McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Bisglycidyl ethers of bisphenols. 3,298,998, 1–17–67, Cl. 260—47.
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McCormick, Jerry R. D., and E. R. Jensen, to American Cyanamid Co. Substituted 1,3,4,10,11,12-hexahydroxynaphthacene-2-carboxamides. 3,360,559, 12–26–67, Cl. 260—559.
McCormick, Larry L., J. W. Hoy, and R. C. Stephenson, to Gray & Huleguard, Inc. Low separation force electrical connector. 3,336,562, 8–15–67, Cl. 339—45.
McCormick, Loran F., to United States of America, Navy. Position control circuit. 3,295,421, 1–3–67, Cl. 91—363.
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McCracken, Philip G., to Geigy Chemical Corp. Process for the preparation of ethylenediamine bis(o-hydroxyphenylacetic acid) and the mono-amide thereof. 3,360,552, 12–26–67, Cl. 260—519.
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McGrew, William A., and W. G. Edwards. Method and system for collecting and distributing water. 3,331,207, 7–18–67, Cl. 61—1.
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McMaster, Harold A., and A. F. Van Zee, to Permaglass, Inc. Apparatus providing a gaseous support bed and method for treating glass or the like thereon. 3,332,760, 7–25–67, Cl. 65—25.
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McNaney, Joseph T. System for transferring data from a storage medium to a record medium. 3,299,434, 1–17–67, Cl. 346—110.
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Meinstein, Siegried, to Witco Chemical Co., Inc. Purification of crude phthalic anhydride. 3,338,924, 8-29-67, Cl. 260—346.7.

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Melchior, Gérard, and J.-P. Doury, to Compagnie Francaise de Television. Receiving arrangements for the reception of colour television signals. 3,333,054, 7-25-67, Cl. 178—5.4.

Melchior, Gerard, and P. Cassagne, to Compagnie Francaise de Television. FM/AM converters. 3,348,168, 10-17-67, Cl. 332—1.

Melchiore, John J.: *See*—
Mills, Ivor W., and Melchiore. 3,305,480.

Melchore, James A.: *See*—
Millonis, Jerry P., and Melchore. 3,359,234.

Meldahl, Edward N., and T. Yoshikawa. Combination ash tray-coaster. 3,337,080, 8-22-67, Cl. 220—20.

Meldau, Robert F., and J. L. Oaks, to Phillips Petroleum Co. Protection of production well equipment in in situ combustion operation. 3,343,598, 9-26-67, Cl. 166—11.

Mele, Joseph J. Clip bushing. 3,306,137, 2-28-67, Cl. 77—62.

Mele, Joseph J. Potted bushing. 3,322,001, 5-30-67, Cl. 77—62.

Mele, Joseph J. Press-fit bushing. 3,349,649, 10-31-67, Cl. 77—62.

Mele, Sidney C., to Associated Baby Services, Inc. Deodorant holder for a diaper hamper. 3,346,140, 10-10-67, Cl. 220—87.

Melendy, Harold A., to TRW Inc. Cutoff valve for oil burner circuit. 3,358,928, 12-19-67, Cl. 239—111.

Melendy, Warren A., to Butler Bin Co. Dual range weighing scale. 3,299,977, 1-24-67, Cl. 177—158.

Melfi, Leonard T., Jr., G. M. Wood, Jr., and P. R. Yeager, to United States of America, National Aeronautics and Space Administration. Gas analyzer for bi-gaseous mixtures. 3,312,101, 4-4-67, Cl. 73—23.

Melfi, Samuel T. Support of guard rails. 3,351,311, 11-7-67, Cl. 248—226.

Melgaard, Hans L., to Despatch Oven Co. Incinerator apparatus. 3,323,475, 6-6-67, Cl. 110—18.

Melgun, Edmund L.: *See*—
McNitt, Lewis F., and Melgun. 3,352,724.

Melhose, Alfred E., to Bell Telephone Laboratories, Inc. Timed release coupling. 3,319,978, 5-16-67, Cl. 285—18.

Meli, Vincent A., and J. D. MacKay, to Eastman Kodak Co. Film packaging apparatus and method. 3,325,889, 6-20-67, Cl. 29—430.

Melik, Mehron. Device for retaining artificial eyelashes in proper normal shape. 3,315,689, 4-25-67, Cl. 132—79.

Melikian, Vaughn W. Mobile dehydrator. 3,299,532, 1-24-67, Cl. 34—195.

Melin, John E. Ear tag and tag applying tool. 3,344,434, 8-8-67, Cl. 40—301.

Melin, Thomas N. Pivotal fork assembly for fork-lift trucks. 3,342,361, 9-19-67, Cl. 214—730.

Melinat, Wolfgang, to General Motors Corp. Pressure reducer for dual master cylinder. 3,308,620, 3-14-67, Cl. 60—54.5.

Melind, Julius J., to H. L. Fisher Mfg. Co., Inc. Turret type indexing machine. 3,357,396, 12-12-67, Cl. 118—313.

Melind, Louis, Co.: *See*—
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Melinder, Arthur A. Turning and boring tool. 3,339,256, 9-5-67, Cl. 29—96.

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Kropp, Donald E., Melino, and Diehl. 3,334,870.

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Mellar, Carroll J.: *See*—
Wiener, Robert, Mellar, Kirschner, and McClelland. 3,307,515.

Mellar, Carroll J., J. G. Kirschner, R. Wiener, and R. H. McClelland, to P. R. Mallory Co., Inc. Apparatus and method for terminating film resistors. 3,323,492, 6-6-67, Cl. 118—620.

Mellberg, James R.: *See*—
Grodberg, Marcus G., and Mellberg. 3,345,265.
Laakso, Pertti V., and Mellberg. 3,306,824.

Mellen, Edward J., Jr.: *See*—
De Fasselle, Robert J., and Vidmar. 3,307,232.

Mellen, Edward J., Jr., J. M. Webb, R. J. de Fasselle, and J. A. Dudek, said Webb, De Fasselle and Dudek, assors. to said Mellen. Injection molding apparatus for making ceramic cores or the like. 3,356,130, 12-5-67, Cl. 164—233.

Mellen, William F. Tractor with liftable rear coulter and moldboard plow combination. 3,298,445, 1-17-67, Cl. 172—166.

Mellgren, Per-Gustaf: *See*—
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Mellgren, Svante: *See*—
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Melles, Norman J., to Dresser Industries, Inc. Apparatus for directional tubing perforation. 3,342,275, 9-19-67, Cl. 175—4.51.

Melling, Aubrey B. Valve tappet. 3,303,833, 2-14-67, Cl. 123—90.

Melling, Richard J., to Westinghouse Electric Corp. Electron discharge device having an exchangeable electrode. 3,312,855, 4-4-67, Cl. 313—237.

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Mellinger, John C., to The Maytag Co. Method and apparatus for centrifugal extraction. 3,346,115, 10-10-67, Cl. 210—78.

Mellion, Frank, to Jo-Dee Corp. Display container. 3,346,309, 10-10-67, Cl. 312—109.

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Mellon National Bank and Trust Co. of Pittsburgh, Pa., The: *See*—
McKeough, Daniel H. 3,303,310.

Mellor, John D., to Commonwealth Scientific and Industrial Research Organization. Freeze-drying process. 3,352,024, 11-14-67, Cl. 34—5.

Mellot, Robert N., R. Feuer, and R. H. Coe, to The Bunker-Ramo Corp. Flip-flop circuit. 3,324,307, 6-6-67, Cl. 307—88.5.

Mellott, Hayes R.: *See*—
Mellott, John S. and H. R. 3,355,042.

Mellott, John S., and H. R. Live deck and loader assembly. 3,355,042, 11-28-6, Cl. 214—91.

Mellott, Robert N., to The Bunker-Ramo Corp. Selection circuit responsive to plural inputs in a priority sequence. 3,311,881, 3-28-67, Cl. 340—147.

Mellott, Robert N., and R. W. Petersen, to Interco, Inc. Fixed power supply utilizing a commutated rectifier. 3,353,082, 11-14-67, Cl. 321—16.

Mellyn, Lawrence P., to General Electric Co. Portable automobile spotlight. 3,322,944, 5-30-67, Cl. 240—8.18.

Melnick, Donald A. Electrically and thermally conductive shield. 3,311,696, 3-28-67, Cl. 174—18.

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Leinberger, Merton C., Burns, and Melnick. 3,329,944.
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Melnikov, George V.: *See*—
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Melnikov, Vasily P., to Leningradsky Elektromekhanichesky zavod. Bed and cylinder printing machines. 3,323,453, 6-6-67, Cl. 101—251.

Melnychyn, Paul, to Georgia-Pacific Corp. Styrene oxide-lignosulfonate products and process of making same. 3,347,842, 10-17-67, Cl. 260—124.

Melone, Robert R., to Illinois Tool Works, Inc. Retainer. 3,310,326, 3-21-67, Cl. 287—87.

Melone, Robert R., to Illinois Tool Works, Inc. Blue lateral and purity magnet assembly. 3,332,046, 7-18-67, Cl. 335—212.

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Kings, Leonard, and Reiser. 3,341,850.
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Spencer, James C., Sr. 3,345,537.
Tiner, Jack D., and Golden. 3,300,390.
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Melpolder, Frank W., to The Atlantic Refining Co. Gas chromatographic columns. 3,310,932, 3-28-67, Cl. 55—386.

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Melton, Guilford B., to Southern Powell Corp. Web screen printing machine. 3,327,627, 6-27-67, Cl. 101—123.

Melton, James O., to The Geolograph Co. Control device for drilling apparatus. 3,347,524, 10-17-67, Cl. 254—173.

Melton, James O., T. B. Wilkinson, and J. H. Jackson. Ball and socket joint. 3,306,640, 2-28-67, Cl. 287—90.

Melton, James O., T. B. Wilkinson, and J. H. Jackson. Ball and socket joint. 3,329,454, 7-4-67, Cl. 287—90.

Melton, James O., T. B. Wilkinson, and J. H. Jackson. Ball and socket joint. 3,342,513, 9-19-67, Cl. 287—90.

Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Ball and socket joint. 3,355,199, 11-28-67, Cl. 287—90.

Melton, James O, T. B. Wilkinson, and J. H. Jackson. Ball and socket joint. 3,357,728, 12-12-67, Cl. 287—90.

Melton, John W., Jr.: *See*—
Griffin, Phil H., III, and Melton. 3,314,219.
Griffin, Phil H., III, and Melton. 3,325,974.

Melton, Thomas M., to Mobil Oil Corp. Symmetrical S,S-dialkyl esters of dialkyl thiopyrophosphorus acids. 3,297,797, 1-10-67, Cl. 260—933.

Melton, Thomas M., to Mobil Oil Corp. O-quinolinyl S-alkyl-alkyl-phosphonodithioates. 3,336,314, 8-15-67, Cl. 260—283.

Meltz, Robert R., to The Moreland Corp. Rubber covered roller. 3,345,942, 10-10-67, Cl. 101—348.

Meltzer, Henry E. Temperature measuring and indicating attachment for heat guns. 3,332,284, 7-25-67, Cl. 73—343.

Meltzer, Henry E. Edger and trimmer. 3,338,314, 8-29-67, Cl. 172—15.

Meltzer, Henry E. Shrub former and lawn edge trimmer. 3,353,268, 11-21-67, Cl. 30—276.

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Brown, Richard E., and Meltzer. 3,320,260.
Brown, Richard E., and Meltzer. 3,336,316.
Brown, Richard E., and Meltzer. 3,336,318.
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Stanaback, Robert J., Brown, and Meltzer. 3,314,965.
Stanaback, Robert J., Brown, and Meltzer. 3,326,920.
Stanaback, Robert J., Brown, and Meltzer. 3,326,921.

Meltzer, Robert I., to Warner-Lambert Pharmaceutical Co. Diphenyl substituted aminoalkyl pyridines. 3,313,822, 4-11-67, Cl. 260—296.

Meltzer, Robert I., and R. E. Brown, to Warner-Lambert Pharmaceutical Co. Substituted lactams and process for their production. 3,301,864, 1-31-67, Cl. 260—294.

Meltzer, Robert I., and W. B. Lutz, to Warner-Lambert Pharmaceutical Co. Gastric anti-secretory compositions. 3,320,126, 5-16-67, Cl. 167—55.

Meltzer, Robert I., and R. E. Brown, to Warner-Lambert Pharmaceutical Co. Substituted quinolizines. 3,336,315, 8-15-67, Cl. 260—286.

Meltzer, Robert I., and R. E. Brown, to Warner-Lambert Pharmaceutical Co. Substituted quinolizines. 3,341,543, 9-12-67, Cl. 260—286.

Meltzer, Robert I., and R. E. Brown, to Warner-Lambert Pharmaceutical Co. Quinoline lactams. 3,341,544, 9-12-67, Cl. 260—286.

Meltzer, Robert J.: *See*—
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Melville, John W.: *See*—
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Melvin, George E.: *See*—
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Melvin, Philip A., and J.-M. G. Pryce, to Imperial Chemical Industries Ltd. Production of viral antigens with N-acetylethyleneimine. 3,318,775, 5-9-67, Cl. 167—78.

Melvin, Raymond J., Jr., to Western Electric Co., Inc. Bipolar signal receiving system. 3,315,252, 4-18-67, Cl. 340—347.

Melvin, William W. Rotary engine. 3,316,887, 5-2-67, Cl. 123—14.

Melzard, Douglas E.: *See*—
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Melzer, Herman. Air curtain apparatus. 3,332,334, 7-25-67, Cl. 98—26.

Membrino, Hercules. Package of plastic bags. 3,353,661, 11-21-67, Cl. 206—57.

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Memelink, Oscar W., to North American Philips Co. Inc. Avalanche injection semiconductor device. 3,324,358, 6-6-67, Cl. 317—235.

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Memofon Co., Ltd.: *See*—
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Memorex Corp.: *See*—
Barclay, Rodney, and Von Felten. 3,341,001.

Menard, Claude J., to Gould-National Batteries, Inc. Chemical formation of positive nickel electrodes. 3,304,204, 2-14-67, Cl. 136—29.

Menard, Edward A., to International Business Machines Corp. Inverter with improved commutation operation. 3,315,145, 4-18-67, Cl. 321—44.

Ménard, Enrico: *See*—
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Menardi & Co.: *See*—
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Menasha Corp.: *See*—
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Menasoff, George N.: *See*—
Corrall, Roy E., and Menasoff. 3,320,350.

Mencacci, Samuel A., to International Machinery Corp. S.A. Heat treating device. 3,347,155, 10-17-67, Cl. 99—365.

Mencacci, Samuel A., and J. G. Hagerborg, to International Machinery Corp. S.A. Hydrostatic cooker with horizontal processing chamber. 3,340,791, 9-12-67, Cl. 99—362.

Mencacci, Samuel A., and J. G. Hagerborg, to International Machinery Corp. Hydrostatic cooker bars. 3,347,351, 10-17-67, Cl. 198—131.

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Mendelsohn, Charles, to General Precision Inc. Method of fabrication of electrical heater. 3,350,777, 11-7-67, Cl. 29—620.

Mendelsohn, Dorothy C.: *See*—
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Mendelsohn, Dorothy C., to Polaroid Corp. Photographic diffusion transfer processes utilizing a processing composition containing potassium and lithium ions. 3,351,465, 11-7-67, Cl. 96—3.

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Donovan, James, and Mendelsohn. 3,346,034.
Donovan, James, and Mendelsohn. 3,357,478.

Mendelson, Hans, to Radio Corp. of America. Carrying case. 3,314,739, 4-18-67, Cl. 312—8.

Mendenhall, Carl J., to Ferro Corp. System for short-term supply of current following interruption thereof. 3,337,756, 8-22-67, Cl. 307—141.4.

Mendenhall, Charles A.: *See*—
Miller, Donald L., and Mendenhall. 3,307,666.

Mendenhall, Charles A., to The Bendix Corp. Electromagnetic clutch. 3,300,008, 1-24-67 Cl. 192—84.

Mendez, Charles E. All purpose commodity pneumatic trailer. 3,311,269, 3-28-67, Cl. 222—176.

Mendoyanis, Peter, to Sika Chemical Corp. Thermosetting composition containing a liquid rubber selected from polysulfide, polymercapten, and chlorinated polyethylene, together with an epoxide and curing agent. 3,316,324, 4-25-67, Cl. 260—830.

Mendoza, Fausto C. Dough bread baking belts. 3,314,528, 4-18-67, Cl. 198—195.

Mendoza, Gabriel T., to Weyerhaeuser Co. Container folding apparatus. 3,326,096, 6-20-67, Cl. 93—36.

Mendoza, Salvador S. Vacuum hair cutting device. 3,353,265, 11-21-67, Cl. 30—133.

Meneely, Henry T. Parallel ruler. 3,333,342, 8-1-67, Cl. 33—108.

Menefee, Earl O., to United States of America, National Aeronautics and Space Administration. Proportional controller. 3,304,799, 2-21-67, Cl. 74—519.

Menefee, Earl O., and A. A. Puccinelli, to United States of America, National Aeronautics and Space Administration. Three axis controller. 3,295,386, 1-3-67, Cl. 74—471.

Menegus, Bruno V.: *See*—
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Menelly, Richard A., to Sylvania Electric Products, Inc. Fluorescent electric discharge lamp having the phosphor particles admixed with indium powder particles. 3,339,100, 8-29-67, Cl. 313—109.

Menelly, Richard A., and T. J. Pricenski, to Sylvania Electric Products Inc. Fluorescent lamp having electroder comprising a tubular braid and an additional wire coiled about the same space. 3,356,883, 12-5-67, Cl. 313—211.

Menendez, Jose: *See*—
Gillick, Laurance H., Menendez, Daugirdas, and Chan. 3,295,704.

Menetrier, Jacques, to S.I.A.R.-Societe Industrielle d'Application des Radioelements. Cable storing and take-up device. 3,306,584, 2-28-67, Cl. 254—175.5.

Meng, Eberhard W.: *See*—
Barger, Nicholas J., Griffin, and Meng. 3,331,944.

Meng, John D., to General Electric Co. Current control circuit. 3,309,587, 3-14-67, Cl. 318—6.

Meng, Karl: *See*—
Horstmann, Harold, Wollweber, and Meng. 3,356,692.

Menge, Eberhard, to Electrostar G.m.b.H. Comminuting attachment for hand mixer. 3,335,772, 8-15-67, Cl. 146—68.

Mengel, Arnold S. Oscillator ring with random digit selection. 3,311,884, 3-28-67, Cl. 340—147.

Mengers, John P. N., to S. Simpson, Ltd. Waist bands of trousers. 3,295,144, 1-3-67, Cl. 2—237.

Menges, Curt. Filter insert for cigarette holders and the like. 3,315,687, 4-25-67, Cl. 131—261.

Menges, George E., to Pittsburgh Plate Glass Co. Brush construction. 3,343,195, 9-26-67, Cl. 15—179.

Menichelli, Vincent J., and I. Kabik, to United States of America, Navy. Electric initiator. 3,306,202, 2-28-67, Cl. 102—28.

Menke, Helmut, to Dynamit Nobel Aktiengesellschaft. Flameproof delay composition with a delayed-action time in the millisecond range. 3,329,539, 7-4-67, Cl. 149—37.

Menke, Henry F. Wall covering system. 3,336,711, 8-22-67, Cl. 52—364.

Menke, John M.: *See*—
Tapas, John C., and Menke. 3,319,377.

Menke, William K. Emulsion separation of aromatic nitro compounds. 3,350,466, 10-31-67, Cl. 260—645.

Menn, Jacob J., F. B. Folckemer, and A. Miller, Jr., to Shell Oil Co. Control of endoparasites of animals. 3,344,021, 9-26-67, Cl. 167—53.

Menn, Julius J.: *See*—
Thompson, Arthur C., Szabo, Brokke, and Menn. 3,313,814.

Menn, Julius J., and W. A. Stamm, to Stauffer Chemical Co. Acaricidal method. 3,321,361, 5-23-67, Cl. 167—22.

Menn, Julius J., and W. A. Stamm, to Stauffer Chemical Co. Acaricidal method. 3,321,365, 5-23-67, Cl. 167—30.

Menne, Robert S.: *See*—
Cagle, William B., and Menne. 3,350,692.

Mennekes, Werner: *See*—
Dommann, Gunther, and Mennekes. 3,339,981.

Mennekes, Werner, to Gewerkschaft Eisenhutte Westphalia. Sidewall miner with vertical swingable rotary cutter and T-shaped conveyor. 3,314,723, 4-18-67, Cl. 299—43.

Mennekes, Werner, to Gewerkschaft Eisenhutte Westphalia. Mining machine with concentric relatively variably rotated heads. 3,322,466, 5-30-67, Cl. 299—60.

Mennekes, Werner, and G. Dommann, to Gewerkschaft Eisenhutte Westfalia. Planar mining machine with separate adjustable height rotary machine. 3,337,269, 8-22-67, Cl. 299—34.

Mennicke, Hartmut, and H. Henning, to Firma Rheinmetall G.m.b.H. Housing structure for an automatic firearm. 3,343,457, 9-26-67, Cl. 89—199.

Mennen, Frederick C., to United States Packaging Corp. Rapid ignition charcoal briquette and method of making the same. 3,328,137, 6-27-67, Cl. 44—17.

Mennerdahl, Carl E. Hoisting crane. 3,348,701, 10-24-67, Cl. 212—31.

Mennesson, Andre L., to Societe Industrielle de Brevets et d'Etudes, S.I.B.E. Multistage carburetors for internal combustion engines. 3,319,942, 5-16-67, Cl. 261—23.

Mennesson, André L., to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Liquid fuel feed devices for internal combustion engines. 3,330,543, 7-11-67, Cl. 261—37.

Mennesson, Andre L., to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Carburetors for internal combustion engines. 3,346,245, 10-10-67, Cl. 261—61.

Mennie, John H., to Boonton Electronics Corp. Admittance measuring bridge circuit having a pair of ganged capacitors. 3,360,720, 12-26-67, Cl. 324—57.

Menown, Hugh, and R. E. Lake, to English Electric Valve Co., Ltd. Cool discharge tubes of hollow ring-like construction. 3,337,764, 8-22-67, Cl. 313—30.

Menser, Henry E., ⅓ each to T. H. and M. C. Vance. Pipe hanger bracket. 3,347,505, 10-17-67, Cl. 248—68.

Menta Daniele. Composing machines for printing types. 3,313,403, 4-11-67, Cl. 199—18.

Mentes, Alexander G. Spreader with aggregate spreading and remixing means. 3,304,845, 2-21-67, Cl. 94—44.

Menth, Joseph D.: *See*—
Holby, James C., and Menth. 3,296,997.

Mention, Jean-Paul H.: *See*—
Mention, Maurice L., and Gobrono. 3,352,930.

Mention, Madelein G.: *See*—
Mention, Maurice L., and Gobrono. 3,352,930.

Mention, Maurice L. (deceased), by J. P. Deminier, heir, legal guardian of minor heirs, and administratrix of M. G., J.-P. H. Mention, and Y. L. Verdier (nee Mention), heirs, and G. Gobron, to Les Usines De Melle. Process for hydrating propylene. 3,352,930, 11-14-67, Cl. 260—641.

Mentnech, Adelbert; 33⅓ each to A. C. Nolte and C. G. Bush. Device for stirring liquids. 3,319,940, 5-16-67, Cl. 259—138.

Mentrup, Anton: *See*—
Zeile, Karl, Thoma, and Mentrup. 3,341,593.

Mentz, Raymond M., to Westinghouse Electric Corp. Arc heater for use with three-phase alternating current source and chamber and electrode structure for use therein. 3,316,444, 4-25-67, Cl. 315—111.

Mentzel, Adolf: *See*—
Eckardt, Dietrich, Mentzel, and Reinke. 3,342,560.

Mentzer, Charles, to Laboratoires Laroche Navarron. Therapeutic composition for the regulation of the water-sodium metabolism containing an association of flavonic derivatives. 3,328,250, 6-27-67, Cl. 167—65.

Mentzer, Charles, to Laboratoires Laroche Navarron. Tetramethyl-quercetin as a natriuretic. 3,335,056, 8-8-67, Cl. 167—65.

Mentzer, Everett K.: *See*—
Webb, Ernest C., and Mentzer. 3,295,438.

Mentzer, Everett K., and R. H. Boucherle, to The Cleveland Trust Co. Automatic pinfall detecting apparatus for bowling game. 3,331,604, 7-18-67, Cl. 273—54.

Mentzer, Merle J., to Corn Products Co. Starch-remoistening adhesive composition. 3,351,480, 11-7-67, Cl. 106—210.

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Merrick, Richard H., to Carrier Corp. Absorption refrigeration. 3,299,669, 1–24–67, Cl. 62—476.
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Christmann, John L. 3,354,698.
Merriken, Lyal N.: *See*—
Harper, George S., and Merriken. 3,317,865.
Merrill, Claude E.: *See*—
Kucera, Clare, Leahy, and Merrill. 3,350,448.
Merrill, Claude I, Pentafluorosulfur bromide. 3,338,685, 8–29–67, Cl. 23—367.
Merrill, David D. Cloud seeding apparatus. 3,313,487, 4–11–67, Cl. 239—14.
Merrill, Edward J., and A. L. Babson, to Warner-Lambert Pharmaceutical Co. Phenolphthalein-mono-phosphate derivatives. 3,331,862, 7–18–67, Cl. 260—396.
Merrill, Edward M., to Cutting Room Appliances Corp. Braking device for cloth laying machines. 3,310,254, 3–21–67, Cl. 242—754.
Merrill, Edward M., to Cutting Room Appliances Corp. Cloth laying machine for tubular knit goods, with magnetic alignment of spreader frame. 3,345,062, 10–3–67, Cl. 270—31.
Merrill, Edward W.: *See*—
Davis, Everett R., Merrill, and Hundt. 3,314,888.
Gillinson, Philip J., Jr., Dauwalter, and Merrill. 3,343,-405.
Merrill, Edward W., E. E. Shaw, N. R. Chambers, and C. R. Dauwalter. Viscometers. 3,349,606, 10–31–67, Cl. 73—60.
Merrill, Elwyn E., S. S. Tabol, E. W. Veazey, and W. E. Rittenhouse, to The Dow Chemical Co. Apparatus for the preparation of foamed sheet material. 3,343,216, 9–26–67, Cl. 18—14.
Merrill, Jack D.: *See*—
Hunt, Charles d'A., and Merrill. 3,330,647.
Hunt, Charles d'D. and Merrill. 3,356,487.
Merrill, John A.: *See*—
Martin, Joseph E., and Merrill. 3,309,653.
Merrill, Joseph B., to High Vacuum Equipment Corp. Thermal shroud. 3,301,319, 1–31–67, Cl. 165—133.
Merrill, Phillip E., to Micro Devices Corp. Thermal switch with thermally collapsible member. 3,309,481, 3–14–67, Cl. 200—142.
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Yale, Harry L., and Merrill. 3,350,268.
Merrill, Robert P., and R. P. Crowley, to ABCOR, Inc. Irreversible hydrogen membrane. 3,344,582, 10–3–67, Cl. 55—16.
Merrill, Ted F. Rotary receptacle for mixing liquids. 3,341,-184, 9–12–67, Cl. 259—81.
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Merriman, Henry H. Air lift for bathtubs. 3,346,885, 10–17–67, Cl. 4—185.
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Wayson, Andrew J. 3,316,704.
Wayson, Andrew J. 3,318,080.
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Merriman, Peter, D. J. Simcox, and J. L. Newhan, to Dunlop Rubber Co. Ltd. Resilient cellular material and method for making same. 3,300,421, 1–24–67, Cl. 260—2.5.
Merriman, Peter, and D. I. Clarke, to Dunlop Rubber Co. Ltd. Production of flexible sheet materials. 3,321,356, 5–23–67, Cl. 161—81.
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Merritt, A. Jay, and M. A. Kesselman, to U.S. Vitamin & Pharmaceutical Corp. Process for stabilizing enzyme compositions. 3,325,364, 6–13–67, Cl. 167—73.
Merritt, Charles H., and J. H. Bennett, to Consolidated Electrodynamics Corp. Constant density oscillograph trace. 3,354,465, 11–21–67, Cl. 346—109.
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Merritt, Donald E., R. H. Kress, and J. C. Medley, to Caterpillar Tractor Co. Door mechanism and hydraulic control therefor. 3,322,464, 5–30–67, Cl. 298—23.
Merritt, Earl L. Swimming pool net elevator. 3,309,716, 3–21–67, Cl. 4—172.
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Merritt, Marion M. Shoe tongue having lacing means. 3,299,-543, 1–24–67, Cl. 36—54.

Merritt, Marvin D. Vapor generator. 3,326,538, 6–20–67, Cl. 261—28.

Merritt, Marvin D., to The E. F. Hauserman Co. Apparatus and method for manufacture of building panels. 3,344,503, 10–3–67, Cl. 29—430.

Merritt, Stanley Y., to General Electric Co. Drive system for static inverters. 3,317,815, 5–2–67, Cl. 321—45.

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Merry, Stanley H. Portable powered conveyor. 3,337,022, 8–22–67, Cl. 198—75.

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Merryman, Jerry D., S. P. Emmons, and W. T. Matzen, to Texas Instruments Inc. Integrated wide-band amplifier system using negative feedback means including a thermally-coupled low-pass thermal filter. 3,341,785, 9–12–67, Cl. 330—28.

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Mersek, Leo D., to The Ajax Mfg. Co. Roll forging machine. 3,323,344, 6–6–67, Cl. 72—238.

Mersek, Leo D., to The Ajax Mfg. Co. Wire straightening unit. 3,343,574, 9–26–67, Cl. 140—147.

Mersereau, Everard C., R. M. Holloway, and R. L. Ludington; said Mersereau assor. to said Holloway and Ludington. Brake mechanism. 3,298,475, 1–17–67, Cl. 188—200.

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Merten, Rudolf, and G. Braun, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of polyurethane plastics 3,305,535, 2–21–67, Cl. 260—77.5.

Merten, Rudolf, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Cellular polyurethanes and process for preparing same. 3,322,699, 5–30–67, Cl. 260—2.5.

Merten, Rudolf, and G. Braun, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethanes prepared from organic polyisocyanates and a haloaryl alkyl amino alcohol. 3,345,309, 10–3–67, Cl. 260—2.5.

Merten, Rudolf, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethanes prepared from amino polyesters. 3,345,338, 10–3–67, Cl. 260—75.

Merten, Ulrich: *See*—
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Merten, Ulrich, and J. T. Porter II, to General Dynamics Corp. Rechargeable energy conversion system. 3,359,136, 12–19–67, Cl. 136—86.

Mertens, Isidorus D. M. F., to International Standard Electric Corp. Hub for releasably holding a reel. 3,312,411, 4–4–67, Cl. 242—68.3.

Mertens, Paul: *See*—
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Gehm, Robert, Kunde, and Mertes. 3,301,823.
Kunde, Joachim, Wilhelm, Mertes, and Schwartz. 3,321,447.

Mertes, Marvin A.: *See*—
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Mertes, Mathias P., and S. E. Saheb, to Kansas University Endowment Association. Production of 5-trifluoromethyluracil. 3,324,126, 6–6–67, Cl. 260—260.

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Mertler, Charles S., and T. H. Cline, to Stevens Mfg. Co., Inc. Thermal probe and pilot burner. 3,311,157, 3–28–67, Cl. 158—125.

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Mertwoy, Abraham, and H. Gisser, to United States of America, Army. Pressurized 4-ball wear tester. 3,302,447, 2–7–67, Cl. 73—10.

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Cull, Neville L., and Mertzweiller. 3,337,489.

Mertzweiller, Joseph K., to Esso Research and Engineering Co. Preparation of diels-alder adducts. 3,341,601, 9–12–67, Cl. 260—586.

Mertzweiller, Joseph K., G. Guttner, and H. M. Tenney, to Esso Research and Engineering Co. Alkali metal polymerization of diolefins. 3,306,949, 2–28–67, Cl. 260—680.

Mertzweiller, Joseph K., and H. M. Tenney, to Esso Research and Engineering Co. Hydroformylation catalyst and process relating thereto. 3,310,576, 3–21–67, Cl. 260—439.

Mertzweiller, Joseph K., and H. M. Tenney, to Esso Research and Engineering Co. Process for hydroformylating and unsaturated hydrocarbon polymer. 3,311,598, 3–28–67, Cl. 260—85.1.

Mertzweiller, Joseph K., and R. N. Watts, deceased (by B. S. Watts, legal representative), to Esso Research and Engineering Co. Synthesis of higher ketones. 3,316,303, 4–25–67, Cl. 260—593.

Mertzweiller, Joseph K., and N. L. Cull, to Esso Research and Engineering Co. Composition containing an hydroformylated-hydrogenated reaction product of an unsaturated hydrocarbon polymer and an epoxidized polyolefin. 3,318,972, 5–9–67, Cl. 260—836.

Mertzweiller, Joseph K., and H. M. Tenney, to Esso Research and Engineering Co. Inhibiting gelation of hydroformylated polymers. 3,334,076, 8–1–67, Cl. 260—85.1.

Mertzweiller, Joseph K., and H. M. Tenney, to Esso Research and Engineering Co. Hydroformylation catalyst and process relating thereto. 3,351,666, 11–7–67, Cl. 260—604.

Mertzweiller, Joseph K., and H. M. Tenney, to Esso Research and Engineering Co. Low viscosity polymer. 3,360,580, 12–26–67, Cl. 260—669.

Mervis, Stanley H.: *See*—
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Meryman, Harold T., and J. W. Saur, to United States of America, Navy. Container and process of storing blood. 3,326,458, 6–20–67, Cl. 233—27.

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Merz, Herbert: *See*—
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Merz, Kenneth M., to IRC, Inc. Potentiometer. 3,351,881, 11–7–67, Cl. 338—123.

Merz, Max, to Nicholson File Co. Chain saw bar. 3,301,283, 1–31–67, Cl. 143—32.

Merz, Max, to Nicholson File Co. Adjustable chain saw bar. 3,327,741, 6–27–67, Cl. 143—32.

Merz, Max, to Nicholson File Co. Saw chain deburring structure. 3,331,407, 7–18–67, Cl. 143—32.

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Merz, Richard E., and E. P. Cashman, to Esso Research and Engineering Co. Mineral lubricating oil containing wax alkylated hydrocarbon and a copolymer of ethylene and vinyl acetate. 3,324,034, 6–6–67, Cl. 252—56.

Merz, Samuel S.: *See*—
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Mescher, Harold E., and W. E. Heyer, to Pacific Scientific Co. Heat treating furnace. 3,326,542, 6–20–67, Cl. 266—5.

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Maneschi, John R., and Meschi, Rice, Van Bosse, and Amiot. 3,299,212.

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Mesenhimer, Lee O., to Lorain Products Corp. Voltage regulator circuit. 3,317,812, 5–2–67, Cl. 321—16.

Mesenhimer, Lee O., to Lorain Products Corp. Transistor inverter with separate relaxation oscillator timing circuit. 3,319,180, 5–9–67, Cl. 331—47.

Mesenhimer, Lee O., to Lorain Products Corp. Regulated phase controlled power supply. 3,343,062, 9–19–67, Cl. 321—2.

Mesenhimer, Lee O., to Lorain Products Corp. Phase-controlling circuitry. 3,343,067, 9–19–67, Cl. 321—27.

Mesenhimer, Lee O., to Lorain Products Corp. Regulated direct current power supply employing auxiliary cell. 3,343,073, 9–19–67, Cl. 323—15.

Mesenhimer, Lee O., to Lorain Products Corp. Ferroresonant volt regulating and harmonic suppressing circuit. 3,351,849, 11–7–67, Cl. 323—45.

Meserow, Francis P. Critical condition warning device. 3,335,414, 8–8–67, Cl. 340—181.

Meserve, Forrest C. Vacuum breaker for internal combustion engines. 3,357,414, 12–12–67, Cl. 123—119.

Meservey, Albert B., J. D. Sease, and R. B. Fitts, to United States of America, Atomic Energy Commission. Method of fabricating ceramic nuclear fuel product. 3,356,776, 12–5–67, Cl. 264—.5.

Meshberg, Philip. Aerosol dispensing package. Re. 26,304, 11–21–67, Cl. 222—156.

Meshberg, Philip. Dispensing means and valve means therefor. 3,317,090, 5–2–67, Cl. 222—386.5.

Meshberg, Philip. Dispensing valve. 3,332,626, 7–25–67, Cl. 239—579.

Meshberg, Philip. Dispensing device with purging means. 3,341,082, 9–12–67, Cl. 222—148.

Meshengisser, Mikhail J.: *See*—
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Meshorer, Marc, to Allied Steel & Tractor Products. Shoring equipment. 3,295,330, 1–3–67, Cl. 61—41.

Meshulam, Avram M. Hose clamp. 3,296,674, 1–10–67, Cl. 24—274.

Meslener, George J., and C. R. Atzenbeck, to Radio Corp. of America. Signal distortion detection by sampling digital diphase signals at twice the bit repetition rate. 3,335,224, 8–8–67, Cl. 178—88.

Mess, Arthur G., Jr., to The Dayton Sure-Grip and Shore Co. Rebar chair with plural feet. 3,338,018, 8–29–67, Cl. 52—687.

Messamer, Robert M., to Ampex Corp. Tape transport vacuum chamber. 3,302,900, 2–7–67, Cl. 242—55.12.

Messenger, C. B.: *See*—
Simons, Sanford L. 3,303,254.

Messenger, Charles B. Vehicle steering systems. 3,295,620, 1–3–67, Cl. 180—6.7.

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Kelley, William P., and Messenger. 3,309,153.

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Messenger, Joseph U., to Mobil Oil Corp. Cementing casing in oil-wet wells. 3,348,612, 10–24–67, Cl. 166—29.

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Messer, Chester R., to Page Belting Co. Endless check straps. 3,358,716, 12–19–67, Cl. 139—161.

Messer, Elmer S., to Flow Measurement Co., Inc. Integrating and averaging system. 3,344,985, 10–3–67, Cl. 235—61.

Messer, Elmer S., and W. M. Carnahan, to Flow Measurement Co., Inc. Mercury filtering apparatus. 3,344,924, 10–3–67, Cl. 210—202.

Messer Griesheim G.m.b.H.: *See*—
Lotz, Horst K. 3,322,418.
Lotz, Horst K., and Pfeuffer. 3,350,079.

Messer, Marvin A.: *See*—
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Messerschmidt, Sebastian. Apparatus for lapping and grinding balls. 3,348,338, 10–24–67, Cl. 51—3.

Messerschmitt AG: *See*—
Assum, Johann. 3,348,529.
Keller, Siegfried, and Brandt. 3,347,730.

Messersmith, William P. Stamp with automatic inking means. 3,333,536, 8–1–67, Cl. 101—333.

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Fulmer, George M., and Messick. 3,339,766.

Messick, Willard C., to Standard Alarm & Signal Co. Fire alarm device. 3,325,800, 6–13–67, Cl. 340—297.

Messina, Anthony J., to Atmos-Tech Corp. Ultraclean work station. 3,336,855, 8–22–67, Cl. 98—115.

Messina, Blase T., to Kelco Co. Bake stable bakery filling product and method. 3,352,688, 11–14–67, Cl. 99—131.

Messina, Giuseppe, W. Muench, R. Mattone, and L. Notarbartolo, deceased (by E. Pascalino and P. Notarbartolo, administratrix and heiress), to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Recovery of benzoic by distillation in presence of excess water. 3,309,289, 3–14–67, Cl. 203—48.

Messina, Ronald M.: *See*—
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Messina, William A. Camera and cassette apparatus. 3,338,148, 8–29–67, Cl. 95—31.

Messing, Donald A.: *See*—
Peck, Reese A., Child, and Messing. 3,360,457.
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Peck, Reese A., Messing, and Child. 3,316,169.
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Messing, Theodor, to Standard-Messo Duisburg Gesellschaft fur Chemietechnik m.b.H. & Co. Apparatus for crystallizing salts and salt solutions. 3,306,710, 2–28–67, Cl. 23—273.

Messing, Theodor, to Standard-Messo Gesellschaft fur Chemietechnik m.b.H. & Co. Method of degassing steel. 3,306,731, 2–28–67, Cl. 75—49.

Messinger, Werner, to Braun Aktiengesellschaft. Dynamo operated pocket flashlight. 3,345,507, 10–3–67, Cl. 240—10.5.

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Messmer, Edwin E., to Roto American Corp. Imprinting device movable between inking and printing positions. 3,307,479, 3–7–67, Cl. 101—334.

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Kumins, Charles A., Chase, Fine, and Messmer. 3,322,562.

Messmer, Joseph H., to Gulf Research & Development Co. Method and apparatus for cutting a hole in the wall of a well. 3,318,395, 5–9–67, Cl. 175—14.

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Laub, Henry W., Messner, Loftfield, and Barbato. 3,308,047.
Loftfield, Richard E., Barbato, Laub, and Messner. 3,308,043.

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Ramoneda, Louis V., and Mestayer. 3,321,052.

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Mester, Joseph H. Ash tray and extinguisher. 3,347,246, 10–17–67, Cl. 131—237.

Mestre, Luis. Sheet sorter having pivoted ramp. 3,356,362, 12–5–67, Cl. 270—58.

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Meszaros, Zoltan, P. Szentmiklosi, and I. Czibula, to Chenoin Gyogyszer-es Vegyeszeti Termekek Tyara Rt. Tetraethoxy-1,2,3,4-tetrahydroisoquinoline derivatives and salts thereof. 3,337,539, 8–22–67, Cl. 260—240.

Met, Viktor O., to General Electric Co. Microwave filter comprising absorbing structure for removing spurious wave energy. 3,353,123, 11–14–67, Cl. 333—73.

Metachemical Machines Ltd.: *See*—
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Metadier, Paul, and A. Voisin, to Laboratoires Paul Metadier Societe Anonyme. Stable perfusable composition for the treatment of tuberculosis. 3,297,528, 1–10–67, Cl. 167—65.

Metaizeau, Paul, to Solvay & Cie. Process for the manufacture of chlorine. 3,332,742, 7–25–67, Cl. 23—219.

Metaizeau, Paul, to Solvay & Cie. Process of regenerating granular materials impregnated with active components in a cyclic process of producing chlorine. 3,342,557, 9–19–67, Cl. 23—219.

Metal Bellows Corp.: *See*—
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Metal Box Co. Ltd., The: *See*—
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Buttery, Michael H. C. 3,355,919.
Buttery, Michael H. C., and Brookes. 3,314,518.
Cooper, Graham B. 3,332,201.
Franek, Jozef T., and Price. 3,314,526.
Geeson, Robert E. 3,303,756.
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Metal Dynamics Corp.: *See*—
Rachman, Isadore B. 3,304,891.

Metal Film Co., Inc.: *See*—
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Metal Hydrides Inc.: *See*—
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Metal Innovations, Inc.: *See*—
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Metal Recovery Systems: *See*—
D'Alello, Gaetano F. 3,298,969.

Metalastik Ltd.: *See*—
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Caunt, Alan. 3,334,886.
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Meyer, Karlheinz, S. Schutz, K. Stoepel, and H.-G. Kroneberg, to Farbenfabriken Bayer Aktiengesellschaft. Steroid aminoguanidines and their production. 3,325,517, 6-13-67, Cl. 260—397.

Meyer, Karl-Heinz, S. Schutz, K. Stoepel, and H.-G. Kroneberg, to Farbenfabriken Bayer Aktiengesellschaft. Steroidguanylhydrazones and their production. 3,328,387, 6-27-67, Cl. 260—211.

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Meyer, Owen A.: *See*—
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Andreasen, Sigurd J., and Meyer. 3,360,166.

Meyer, Paul F., and J. L. Wolfe, deceased (by V. V. Wolfe, executrix). Snow roller. 3,346,973, 10-17-67, Cl. 37—10.

Meyer Products, Inc.: *See*—
King, William W. 3,353,287.
Meyer, Gustave. 3,295,147.

Meyer, Ralph E.: *See*—
Linden, Gustave B., Meyer, and Vanneman. 3,316,278.
Linden, Gustave B., Meyer, and Vanneman. 3,335,155.

Meyer, Raymond J.: *See*—
Harris, Kenneth J., Meyer, and Malm. 3,298,252.

Meyer, Rene, and P. Potet, to Societe des Poudres Metalliques et des Alliages Speciaux Ugine-Carbone. Process for making composite porous elements. 3,359,622, 12-26-67, Cl. 29—420.5.

Meyer, Richard L., and A. A. Di Frango, to Westinghouse Electric Corp. Controlled braking system for load lifting apparatus. 3,296,512. 1-3-67. Cl. 318—203.

Meyer, Robert, and G. Muller, to Prochirhim Societe Anonyme. Process of extending the duration of service of ingot mold. 3,340,082, 9-5-67, Cl. 117—5.3.

Meyer, Robert A., to Amity Leather Products Co. Fastener device. 3,301,296, 1-31-67, Cl. 150—39.

Meyer, Robert F., to Parke, Davis & Co. 1-(diloweralkylamino)-3-(aminolowerakyl)-3-phenyloxindoles. 3,314,954, 4-18-67, Cl. 260—247.2.

Meyer, Robert N., to Douglas Aircraft Co., Inc. Servo valve. 3,307,586, 3-7-67, Cl. 137—625.69.

Meyer, Robert V., to W. and L. E. Gurley. Optical encoder responsive to movement in two directions. 3,297,879, 1-10-67, Cl. 250—237.

Meyer, Roelf J.: *See*—
Fokker, Herman, Meyer, Prast, and Roozendaal. 3,302,-392.

Meyer, Roelf J., A. A. Dros, and A. A. Liebe, to North American Philips Co. Inc. Hot-gas reciprocating engines of the displacer piston type. 3,302,393, 2-7-67, Cl. 60—24.

Meyer, Roy E. Rope safety clamp device. 3,317,971, 5-9-67, Cl. 24—134.

Meyer, Rudolf: *See*—
Leunig, Heimbert, Meyer, and Buchner. 3,350,887.

Meyer, Rudolf, to Space Technology Laboratories, Inc. Magnetohydrodynamic method and apparatus. 3,360,220, 12-26-67, Cl. 244—42.

Meyer, Sven F. E., to Industriaktiebolaget Elektro-Variator. Plugs with built-in phase inverters. 3,317,880, 5-2-67, Cl. 339—31.

Meyer, Vernis H., to Deere & Co. Herbicide incorporator. 3,327,786, 6-27-67, Cl. 172—151.

Meyer, Vernis H., to Deere & Co. Combination oiling and layby spray boom. 3,357,646, 12-12-67, Cl. 239—288.5.

Meyer, Walter, and R. S. Olsen, to Research Corp. Ion-exchange resin counter-current extraction apparatus. 3,298,-791, 1-17-67, Cl. 23—270.

Meyer, Walter E., to Cra-Vax Corp. Feed mechanism for an apparatus for opposing offset in printing. 3,310,205, 3-21-67, Cl. 222—193.

Meyer & Wenthe, Inc.: *See*—
Priesmeyer, Charles, and Prosen. 3,313,231.

Meyer, Werner H., and J. J. Curry, to American Machine & Foundry Co. Dispensing apparatus. 3,354,813, 11-28-67, Cl. 99—336.

Meyer, Werner T., to Esso Research and Engineering Co. Method of preparing geometrically uniform rolls of plastic film. 3,352,956, 11-14-67, Cl. 264—176.

Meyer, William: *See*—
Slawinski, Richard C., and Meyer. 3,330,299.
Slawinski, Richard C., and Meyer. 3,332,660.

Meyer, William C.: *See*—
Hefler, Paul R., and Meyer. 3,331,394.

Meyer, William J., to Thiokol Chemical Corp. Method for preparing complexes of heavy metal halides and N,N,N',N'-tetrakis(hydroxoyalkyl)alkylene diamines. 3,296,287, 1-3-67, Cl. 260—429.

Meyer, William K.: *See*—
Henderson, James H., Meyer, and Taber. 3,330,345.

Meyerand, Russell G., Jr.: *See*—
Lary, Edmund C., Bullis, and Meyerand. 3,322,978.

Meyerchick, Frank R., Jr., to Dreis & Krump Mfg. Co. Bench brake. 3,359,771, 12-26-67, Cl. 72—319.

Meyercord Co., The: *See*—
Jahp, Clifford J. 3,297,508.
Schlotthauer, Herman E. 3,306,807.

Meyerer, Paul: *See*—
Veith, Wernr, and Meyerer. 3,299,311.

Meyerer, Paul, to Siemens & Halske Aktiengesellschaft. Permanent magnet system for the bundled guidance of an electron beam over a relatively long path, especially for traveling waves tubes. 3,329,915, 7-4-67, Cl. 335—210.

Meyerer, Paul, A. Kraus, and A. Hinckeldey, to Siemens Aktiengesellschaft. Beam generating system for electron tubes with a high breakdown strength. 3,358,173, 12-12-67, Cl. 313—82.

Meyerhoefer, Carl E., to Equitable Paper Bag Co., Inc. Vacuum cleaner bag with closed tube. 3,297,233, 1-10-67, Cl. 229—53.

Meyerhofer, Leonard G. Surfboard structure. 3,305,881, 2-28-67, Cl. 9—310.

Meyerhoff, Albert J., and H. C. Goodman, to Burroughs Corp. Current steering circuit. 3,351,924, 11-7-67, Cl. 340—174.

Meyers, Benjamin F.: *See*—
Knight, Francis E., Meyers, and Dickison. 3,300,845.

Meyers, Charles R., Jr., to Center Laboratories, Inc. Quick closing stopper. 3,338,447, 8-29-67, Cl. 215—52.

Meyers, Clarence L., & Co., Inc.: *See*—
Meyers, Gordon E. and Milton M. 3,299,486.

Meyers, Donald N., and O. Stroukoff, to Piasecki Aircraft Corp. Coordinating control linkage. 3,309,937, 3-21-67, Cl. 74—471.

Meyers, Douglas C., to Shell Oil Co. Crude oil devaporizing process. 3,321,397, 5-23-67, Cl. 208—351.

Meyers, Douglas C., to Dresser Industries, Inc. Self-powered meter rate compensator. 3,342,071, 9-19-67, Cl. 73—261.

Meyers, Eugene, and J. Y. Powell, to Charles Pindyck, Inc. Garments for children. 3,304,556, 2-21-67, Cl. 2—69.5.

Meyers, Frederick C. Reinforced plastic containers for pressurized products. 3,327,907, 6-27-67, Cl. 222—402.16.

Meyers, Frederick C. Plastic container and valves for storing and dispensing pressurized products. 3,333,743, 8-1-67, Cl. 222—402.1.

Meyers, George L., to American Can Co. Package with contents holding means. 3,334,734, 8-8-67, Cl. 206—45.14.

Meyers, George L., to American Can Co. Bread package. 3,355,-303, 11-28-67, Cl. 99—173.

Meyers, Gordon E. and Milton M., to Clarence L. Meyers & Co., Inc. Method of making stretch cotton knitted fabrics. 3,299,486, 1-24-67, Cl. 28—76.

Meyers, Harold S., to Waldorf Paper Products Co. Shipping folders. 3,295,741, 1-3-67, Cl. 229—40.

Meyers, Jacob G. Garbage can mounting. 3,323,852, 6-6-67, Cl. 312—319.

Meyers, Joseph A., E. G. Shay, and R. C. Taylor, to Atlantic Richfield Co. Alkylbenzene sulfonate detergent compositions containing 2-hydroxy-1-amino alkanes. 3,296,146, 1-3-67, Cl. 252—137.

Meyers, Laurence. Ion exchange apparatus for the modification of liquids. 3,337,444, 8-22-67, Cl. 204—257.

Meyers, Lawrence S. Article holder. 3,350,045, 10-31-67, Cl. 248—205.

Meyers, Max L.: *See*—
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Meyers, Michael D. Simulated costume or theatrical footwear. 3,304,629, 2-21-67, Cl. 36—7.2.

Meyers, Milton M.: *See*—
Meyers, Gordon E. and Milton M. 3,299,486.

Meyers, Robert E., to The Dendix Corp. Actuator for turbine stator blades. 3,357,178, 12-12-67, Cl. 60—39.25.

Meyers, Rodney M. Drug distribution system. 3,347,358, 10-17-67, Cl. 206—47.

Meyers-Sherman Corp., The: *See*—
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Meyers, Stanley T., and J. P. Ratzlaff, to Bell Telephone Laboratories, Inc. Frequency shift receiver with noise frequency detection. 3,353,102, 11-14-67, Cl. 325—320.

Meyers, Theodore F., to The Hobart Mfg. Co. Food waste disposer and control therefor. 3,344,996, 10-3-67, Cl. 241—46.

Meyers, William F., and D. W. Klopp, to Honeywell, Inc. Electric current-producing cell with buffer zone. 3,355,328, 11-28-67, Cl. 136—93.

Meyer-Simon, Eugen, and A. Frey, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of mixtures of zirconium oxide and silicic acid. 3,300,414, 1-24-67, Cl. 252—454.

Meyer-Simon, Eugen, H. Mann, and A. Rucker, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Manganese and aluminum containing pink pigments for glazes and underglazes. 3,330,678, 7-11-67, Cl. 106—288.

Meyerson, Norman L., to Worthington Corp. Heat quantity meter. 3,301,049, 1-31-67, Cl. 73—193.

Meylan, Andre, and H. Haldegger, to Feisa S.A. Device for fitting together two pieces. 3,350,768, 11-7-67, Cl. 29—271.

Meylan, Bernard. Gas lighter construction. 3,301,019, 1-31-67, Cl. 67—7.1.

Meylan, Pierre: *See*—
Bellati, Hans, Rutti, and Meylan. 3,312,447.

Meynard, Pierre: *See*—
Grassin, Henri, and Meynard. 3,358,984.

Meyst, Gerardus J., and A. C. J. M. Snethorst, to North American Philips Co., Inc. Method of manufacturing germanium-containing products substantially free of fluorine from liquids containing fluorine and germanium. 3,340,002, 9-5-67, Cl. 23—22.

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Osman, Miklos, Novak, Csomor, Fernbach, and Mezei. 3,359,580.

Mezey, Eugene J.: *See*—
Chiras, Stanley J., and Mezey. 3,316,306.

Mezoff, John G., and E. J. Mayer, to The Dow Chemical Co. Nozzle attachment for use in die casting. 3,342,378, 9-19-67, Cl. 222—152.

Miale, Joseph N.: *See*—
Garwood, William E., Miale, and Weisz. 3,297,565.

Miale, Joseph N., to Mobil Oil Corp. Catalytic hydrocracking process with a crystalline aluminosilicate catalyst. 3,344,-058, 9-26-67, Cl. 208—111.

Miale, Joseph N., and P. B. Weisz, to Mobil Oil Corp. Catalytic conversion with a crystalline aluminosilicate activated with a metallic halide. 3,354,078, 11-21-67, Cl. 208—120.

Miane, Marcel: *See*—
Gavreau, Vladimir, Calaora, and Miane. 3,337,126.

Miangolarra, Francisco. Shuttle-less loom reciprocating mechanism. 3,311,137, 3-28-67, Cl. 139—122.

Miano, George, to J. Maino. Accessory for controlling operation of carburetor accelerator pump. 3,298,675, 1-17-67, Cl. 261—34.

Mianowski, Robert J.: *See*—
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Miaskiewicz, Richard F., Sr., to Carrier Corp. Bore centered coupling. 3,346,285, 10-10-67, Cl. 287—104.

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Meier, Hans. 3,320,788.
Nussbaumer, Manfred. 3,327,964.
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Mical, Louis Z., and A. M. Seemann, Federal-Mogul Corp. Apparatus for molding leather sealing members. 3,324,511, 6-13-67, Cl. 18—19.

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Edwards, Albert J., and Healy. 3,310,192.

Micale, Angelo. Four-way adjustable shoe for shanked buttons. 3,310,012, 3-21-67, Cl. 112—114.

Micale, Angelo. Pinking knife. 3,352,266, 11-14-67, Cl. 112—122.

Micchelli, Albert L.: *See*—
Billings, Thomas J., Jr., and Micchelli. 3,321,434.
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Micciche, Frank. Disposable tooth cleaner. 3,298,507, 1-17-67, Cl. 206—46.

Miccioli, Aldo R., and D. H. Archer, to Raytheon Co. Antenna array system. 3,305,867, 2-21-67, Cl. 343—113.

Miccioli, Bruno R., to The Carborundum Co. Method for making ducted refractory articles. 3,345,160, 10-3-67, Cl. 75—222.

Micetich, Ronald G.: *See*—
Lemieux, Raymond U., and Micetich. 3,311,611.

Micgielse, Karel H., and A. J. Reijnders, to Stamicarbon N.V. Endless conveyor. 3,339,710, 9-5-67, Cl. 198—160.

Michael, Arthur B.: *See*—
Yntema, Leonard F., and Michael. 3,314,767.
Yntema, Leonard F., and Michael. 3,314,785.

Michael, Arthur B., to The Glidden Co. Copper infiltrating composition for porous ferruginous material. 3,307,924, 3-7-67, Cl. 29—182.5.

Michael, Elmer W.: *See*—
Clause, Adolph S., Vollink, and Michael. 3,318,705.

Michael, Eugene M.: *See*—
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Michael, Eugene M., and G. R. Toovey, to General Time Corp. Touch controlled alarm clock. 3,352,101, 11-14-67, Cl. 58—50.

Michael, Frank R.: *See*—
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Michael, Fred P., Jr. Shoe strings. 3,330,011, 7-11-67, Cl. 24—143.

Michael, Gregor, H. Frotscher, H. Markert, and M. Petzold, to Dehydag Deutsche Hydrierwerke G.m.b.H. Nickel electroplating baths and process. 3,300,395, 1-2-67, Cl. 204—49.

Michael, Harold J., to North American Aviation, Inc. Method of providing high temperature protective coatings. 3,298,936, 1-17-67, Cl. 204—38.

Michael, Henry J., and R. E. Watson, Jr., to Bell Telephone Laboratories, Inc. Combined telephone and data switching system. 3,335,226, 8-8-67, Cl. 179—2.

Michael, Jacob F., to Westinghouse Electric Corp. Projection lamp having resilient support means for dichroic reflector. 3,331,980, 7-18-67, Cl. 313—113.

Michael, James. Snap shackle. 3,341,907, 9-19-67, Cl. 24—241.

Michael, James R.: *See*—
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Makowski, Henry S., Michael, and Smyers. 3,335,050.

Michael, James R., R. J. Leary, P. A. Argabright, and A. J. Passannante, to Esso Research and Engineering Co. Derivatives of furan. 3,346,599, 10-10-67, Cl 260—347.3.

Michael, Johannes, to Nordischer Maschinenbau Rud. Fish fileting machines with dorsal knives, belly knives, rib knives and guides arranged therebetween. 3,309,730, 3-21-67, Cl. 17—4.

Michael, Johannes, to Nordischer Maschinenbau Rud. Method of producing fish fillets free from pin bones. 3,319,287, 5-16-67, Cl. 17—45.

Michael, Larry. Basketball net anti-whip device. 3,313,539, 4-11-67, Cl. 273—1.5.

Michael, Louis A., to International Business Machines Corp. Address selection control apparatus. 3,317,902, 5-2-67, Cl. 340—172.5.

Michael, Norman, to Westinghouse Electric Corp. Single solution decontamination treatment. 3,311,565, 3-28-67, Cl. 252—301.1.

Michael, Richard A.: *See*—
Marquart, Gordon L., and Michael. 3,352,166.

Michael, Richard A., to Deere & Co. Vehicle transmission. 3,301,078, 1-31-67, Cl. 74—333.

Michael, Richard W.: *See*—
Clardy, Edwin K., and Michael. 3,348,032.

Michael, Ronald G.: *See*—
Horsch, Rudolf, and Michael. 3,345,601.

Michael, Stanley H.: *See*—
Keane, Francis X., and Michael. 3,301,118.

Michael, Thomas C.: *See*—
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Michaels, Gerhard: *See*—
Forsthuber, Hubert, and Michaelis. 3,310,752.

Michaels, Alan S.: *See*—
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Michaels, Alan S., to Amicon Corp. Permselective membranes. 3,320,328, 5-16-67, Cl. 260—674.

Michaels, Alan S., to Amicon Corp. Plasticized polyelectrolyte gel and method of making same. 3,324,068, 6-6-67, Cl. 260—30.6.

Michaels, Alan S., to Amicon Corp. Refractory coatings for metal surfaces. 3,330,704, 7-11-67, Cl. 148—6.2.

Michaels, Bruno: *See*—
Cherniavskyj, Jaroslav, Kerstein, Majesty, and Michaels. 3,331,541.

Michaels, Bruno, and A. E. Nupnau, to Bell & Howell Co. Automatic rewind motion picture projector. 3,326,482, 6-20-67, Cl. 242—55.12.

Michaels, Edwin B., and C. A. Wetmore, to Stamford Chemical Industries, Inc. Novel detergent compositions. 3,310,498, 3–21–67, Cl. 252—152.

Michaels, Edwin B., and C. A. Wetmore, to Stamford Chemical Industries, Inc. Novel detergent compositions. 3,310,499, 3–21–67, Cl. 252—152.

Michaels, Edwin B., and C. A. Wetmore, to Stamford Chemical Industries, Inc. Detergent compositions. 3,349,038, 10–24–67, Cl. 252—161.

Michaels, Glenn O., and J. W. Gambell, to Sinclair Research, Inc. Dehydrogenation process and alumina-supported nickel, molybdenum and alkali metal catalyst therefor. 3,345,427, 10–3–67, Cl. 260—680.

Michaels, Michael, to Silcoa Products, Inc. Patching composition containing polyvinyl and epoxy resins with hydraulic cement. 3,329,641, 7–4–67, Cl. 260—31.2.

Michaels, Ronald: *See*—
Mayes, Nathan, and Michaels. 3,314,984.

Michaels, Thomas B., to General Dynamics Corp. Voltage regulation for A.C.-to-D.C. converters. 3,304,486, 2–14–67, Cl. 321—18.

Michaelsen, Finn D.: *See*—
Andrew, Charles, Waltkens, and Michaelsen. 3,311,077.

Michaelson, Forest K.: *See*—
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Michaelson, Jack, R. C. McDevitt, and H. I. Scher, to National Plastic Products Co., Inc. Method for making a textured laminate surface. 3,303,081, 2–7–67, Cl. 156—219.

Michaelson, Jack, R. C. McDevitt, and H. I. Scher, to National Plastic Products Co., Inc. Method of forming textured laminate surface. 3,311,520, 3–28–67, Cl. 156—209.

Michaelson, Joseph M., Jr., to Westinghouse Electric Corp. Switch operator comprising a rotatable switch actuator. 3,333,079, 7–25–67, Cl. 200—172.

Michaelson, Stanley D., and K. F. Ellers, to Kennecott Copper Corp. Endless belt conveyor and belt therefor. 3,297,144, 1–10–67, Cl. 198—181.

Michalak, Martin H. Methods and apparatus for compacting powdered metal to form strips. 3,298,060, 1–17–67, Cl. 18—9.

Michalchik, Michael, to Fairchild Camera & Instrument Corp. Apparatus for immersion development. 3,336,906, 8–22–67, Cl. 118—637.

Michalchik, Michael, to Fairchild Camera & Instrument Corp. Photoengraving resist. 3,348,944, 10–24–67, Cl. 96—1.8.

Michalchik, Michael, to Fairchild Camera & Instrument Corp. Activated photoconductors and recording element therewith. 3,352,671, 11–14–67, Cl. 96—1.8.

Michalik, Edmund R., and G. W. Misson, to Pittsburgh Plate Glass Co. Method of varying the thickness of a glass sheet while on a molten metal bath. 3,345,149, 10–3–67, Cl. 65—99.

Michalka, Alois M. Display tray with slotted openings. 3,314,530, 4–18–67, Cl. 206—44.

Michalko, Edward, to Universal Oil Products Co. Method for preparing high rate zeolitic molecular sieve particles. 3,348,911, 10–24–67, Cl. 23—112.

Michalko, Edward, to Universal Oil Products Co. Method for producing molecular sieve zeolite particles. 3,356,451, 12–5–67, Cl. 23—112.

Michalko, Edward, to Universal Oil Products Co. Preparation of crystalline zeolite particles. 3,359,068, 12–19–67, Cl. 23—112.

Michalopoulos, Gust A., and L. E. Thelemaque; said Michalopoulos assor. to Western Electric Co. Inc.; said Thelemague assor. to Bell Telephone Laboratories Inc. Busy verification circuit for private branch exchanges. 3,327,065, 6–20–67, Cl. 179—27.

Michalowicz, Joseph C. Fluid metering system and apparatus. 3,332,283, 7–25–67, Cl. 73—219.

Michalsl, Maksymilian A., to Berkey Photo Inc. Electrical system for gas discharge lamp. 3,309,566, 3–14–67, Cl. 315—171.

Michalski, Conrad, and G. A. Bonetti, to Atlantic Richfield Co. Preparation of 1-nitroparaffins from 1-nitroolefins by catalytic hydrogenation. 3,297,769, 1–10–67, Cl. 260—644.

Michalski, Maksymilian A.: *See*—
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Michalski, Raymond J., to Nalso Chemical Co. Aqueous colloidal SiO_2 sols stabilized against bacterial contamination. 3,336,236, 8–15–67, Cl. 252—313.

Michalski, Raymond J., R. S. Robertson, E. A. Steck, and W. M. Stephenson, to Nalco Chemical Co. Paper making process. 3,316,176, 4–25–67, Cl. 252—47.

Michaud, Andre L.: *See*—
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Michaud, Honore. Log hook. 3,310,331, 3–21–67, Cl. 294—26.

Michaud, Horst: *See*—
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Michel, Adolf. Keying devices, particularly for electrical musical instruments. 3,353,030, 11–14–67, Cl. 307—88.

Michel, Alfred, and H. Schindler, to Siemens-Schuckertwerke Aktiengesellschaft. Electrodeless apparatus for the formation and containment of a plasma. 3,329,864, 7–4–67, Cl. 315—111.

Michel, Alwin E., and E. J. Walker, to International Business Machines Corp. High speed electro-optical semiconductor display apparatus. 3,308,452, 3–7–67, Cl. 340—324.

Michel, Andre: *See*—
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Michel, Fleury: *See*—
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Michel, Jean-Marie: *See*—
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Riou, Marcel, and Michel. 3,330,886.

Michel, Justin F., and J. Williamson, to M&S Machine & Engineering Co. Apparatus and method for forming cartons or the like. 3,313,219, 4–11–67, Cl. 93—36.3.

Michel, Louis, Y. Poncel, and R. Patron, to Electronique Marcel Dassault. Damped suspension system. 3,351,307, 11–7–67, Cl. 248—18.

Michel, Pierre: *See*—
Faugeras, Pierre, Michel, and Talmont. 3,352,645.

Michel, Rudolph H.: *See*—
Knoth, Walter H., Jr., and Michel. 3,354,121.

Michel, Rudolph H., to E. I. du Pont de Nemours and Co. Polymer of polyacylhydrazones and process of preparation therefor. 3,354,122, 11–21–67, Cl. 260—63.

Michel, Rupprecht, to Siemens-Schuckertwerke Aktiengesellschaft. Pressure-fired once-through boiler. 3,298,360, 1–17–67, Cl. 122—510.

Michel, Rupprecht, to Siemens-Schuckertwerke, Aktiengesellschaft. Once-through boiler with welded tube system. 3,310,040, 3–21–67, Cl. 122—510.

Michel, Rupprecht, and H. Zwetz, to Siemens-Schuchertwerke Aktiengesellschaft. Regulating system for reducing the effect of heat fluctuations on forced-flow steam boilers in power plants. 3,306,044, 2–28–67, Cl. 60—107.

Michelitsch, Edwin, to John Krauss, Inc. Container. 3,357,630, 12–12–67, Cl. 229—45.

Michelitsch, Michael, to International Business Machines Corp. Method of forming a semiconductor by diffusion by using a crystal making technique. 3,354,007, 11–21–67, Cl. 148—187.

Michelotti, Aldo, to Ing. C. Olivetti & C., S.p.A. Serial printing device having plural type heads mounted on movable carriage. 3,356,198, 12–5–67, Cl. 197—48.

Michelotti, Francis W., to Interchemical Corp. 1-diallylamino-2,3-epoxypropane and its copolymers with styrene. 3,316,225, 4–25–67, Cl. 260—88.1.

Michelotti, Francis W., to Interchemical Corp. Process for the polymerization of norbornene derivatives using salts of iridium osmium or ruthenium. 3,336,273, 8–15–67, Cl. 260—80.

Michels, Friedrich: *See*—
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Michels, Hermann, to Upsilon-Werk Wienke & Michels K. G. Method for producing sterilized elements from fibrous material and an article produced therefrom. 3,344,784, 10–3–67, Cl. 128—156.

Michels, Josephus F.: *See*—
Akkerman, Antony M., and Michels. 3,352,751.
Akkerman, Antony M., Van Leeuwen, and Michels. 3,312,700.
Akkerman, Antony M., Van Leenwen, and Michels. 3,351,598.

Michels, Klaus: *See*—
Ehrlenspiel, Klaus, Michels, Niemann, and Reister. 3,311,555.

Michels, Lawrence S., to Credifier Co. Matching identification system. 3,344,258, 9–26–67, Cl. 235—61.7.

Michelson, Gunnar P., to Hoffman Electronics Corp. Solar cell array. 3,326,497, 6–20–67, Cl. 244—1.

Michener, Aubrey W., Jr., E. J. Carlson, and R. H. Koo, to Allied Chemical Corp. Method of removing iron, zirconium and titanium from aluminum sulfate. 3,323,865, 6–6–67, Cl. 23—123.

Michetti, Sante. Connectable concentric record discs. 3,332,690, 7–25–67, Cl. 274—42.

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Mikulecký, Karel, J. Eliáš, and J. Holub, to Vyzkumny Ustav Bavlnarsky. Device for securing yarn during stoppage of the spinning mechanism for the continuous ringless spinning of textile fibers. 3,334,479, 8–8–67, Cl. 57—34.

Mikulecky, Karel, and J. Elias, to Vyzkumny Ustav Bavlnarsky. Ringless spinning apparatus with easily cleanable spinning chamber. 3,339,360, 9–5–67, Cl. 57—58.89.

Mikus, Felix F., and J. E. Mathers, to Sylvania Electric Products Inc. Europium and bismuth activated yttrium vanadate phosphor. 3,360,674, 12–26–67, Cl. 313—109.

Mikus, Felix F., J. E. Mathers, and F. C. Palilla, to Sylvania Electric Products Inc. Europium and calcium or manganese activated yttrium vanadate phosphor. 3,360,675, 12–26–67, Cl. 313—109.

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Milanowski, Floyd J., to United States of America, Army. Detent assembly. 3,345,913, 10–10–67, Cl. 89—1.

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Milazzo, Carl J., to Hohl Machine & Conveyor Co., Inc. Accumulating transfer conveyor. 3,355,008, 11–28–67, Cl. 198—219.

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Lerman, Samuel. 3,323,152.

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Mildner, Raymond C., to The Dow Chemical Co. Coaxial cable with insulating conductor supporting layers bonded to the conductors. 3,309,455, 3–14–67, Cl. 174—29.

Mildner, Raymond C., to The Dow Chemical Co. Thermal barriers for electric cables. 3,325,589, 6–13–67, Cl. 174—107.

Mildner, Raymond C., to The Dow Chemical Co. Double-shielded electric cable. 3,340,353, 9–5–67, Cl. 174—106.

Milenkovic, Veljko, H. T. Johnson, and C. Zaander, to American Machine & Foundry Co. Tape transcriber and transport mechanism therefor. 3,298,006, 1–10–67, Cl. 340—174.1.

Miles, Barry I., to Collins Radio Co. Single conductor audio frequency signal and D-C switching transmission system. 3,328,527, 6–27–67, Cl. 179—3.

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Miles, Charlie A., and M. H. Gomer, to Alamance Industries, Inc. Support stocking. 3,306,081, 2–28–67, Cl. 66—178.

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Miles, David T., H. L. Flanigan, Jr., and W. M. Bell, to Kelsey-Hayes Co. Adjusting joint for pliers or the like. 3,331,132, 7–18–67, Cl. 30—266.

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Miles, Harry V., Jr., to Dorr-Oliver Inc. Apparatus and method for the filtration-thickening of suspensions of solids. 3,356,215, 12–5–67, Cl. 210—82.

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Miles, John R., to Xerox Corp. Scanning apparatus with dynamic focusing. 3,304,365, 2–14–67, Cl. 178—7.6.

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Miles, Robert F., to MS Industries, Inc. Tote box. 3,360,162, 12–26–67, Cl. 220—97.

Miles, Roland J., to Carlson Tool & Machine Co. Workpiece transfer mechanism. 3,332,723, 7–25–67, Cl. 300—3.

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Miles, Russel T., and P. R. Anderson; deceased (by W. Reddie, executor), to Corinthian Cornice Systems, Inc. Assembly for use in building structures. 3,344,563, 10–3–67, Cl. 52—11.

Miles, Russel T., and P. R. Anderson; deceased (by W. Reddle, executor), to Corinthian Cornice Systems, Inc. Building structure. 3,344,566, 10-3-67, Cl. 52—94.

Miles, Willie F. Lawn edging mechanism in a lawn mower. 3,319,406, 5-16-67, Cl. 56—25.4.

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Mill, Theodore, J. O. Rodin, R. M. Silverstein, and C. Woolf, to Allied Chemical Corp. Aryl (1,1-dihydroperfluorooctyl) ureas. 3,317,598, 5-2-67, Cl. 260—553.

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Ludkin, Basil A. 3,353,555.

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Miller, Alfred H., and J. E. Starner, to Libbey-Owens-Ford Glass Co. Conveyor apparatus. 3,342,301, 9-19-67, Cl. 198—24.

Miller, Alfred J., to Union Carbide Corp. Method and apparatus for cutting and marking metal plate. 3,312,562, 4-4-67, Cl. 117—4.

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Miller, Anthony P. Cigarette holder. 3,323,525, 6-6-67, Cl. 131—187.

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Miller, Arthur, C. H. Dorchester, and G. C. Sullivan, to Armalite, Inc. Locked action rifle for automatic and semi-automatic selective firing. 3,318,192, 5-9-67, Cl. 89—142.

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Miller, Burton F., to TRW Inc. Receiver for determining the frequency of an intercepted signal. 3,310,744, 3-21-67, Cl. 325—363.

Miller, C. David, to American Instrument Co., Inc. Carbon and hydrogen analyzer. 3,346,342, 10-10-67, Cl. 23—253.

Miller, Carl G. Automatic flasher caution signal system for automotive vehicles. 3,300,756, 1-24-67, Cl. 340—72.

Miller, Carlos C., Jr.: *See*—
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Miller, Cecil G., Jr.: *See*—
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Miller, Cecil V., and R. M. Whitson, ⅛ to J. C. and B. Nees. Rotary pop-up sprinkler having a leaning feature. 3,334,817, 8-8-67, Cl. 239—113.

Miller, Charles A., Jr., J. B. Masaschi, and R. W. Miller, Jr. Cord wound filter element. 3,319,793, 5-16-67, Cl. 210—243.

Miller, Charles A., Jr., J. B. Masaschi, and R. W. Miller, Jr. Integrally wound filter tube. 3,356,226, 12-5-67, Cl. 210—457.

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Miller, Charles E., to Leeds & Northrup Co. Null type multirange measuring system which maintains constant sensitivity throughout the several ranges. 3,317,833, 5-2-67, Cl. 324—99.

Miller, Charles E., and R. B. Jacobs, to United States of America, as represented by the Administrator of the National Aeronautics and Space Administration. Densitometer. 3,298,221, 1-17-67, Cl. 73—32.

Miller, Charles F., to Basic Products Corp. Capillary wire feed device. 3,319,859, 5-16-67, Cl. 226—91.

Miller, Charles F., to Basic Products Corp. Rotary wire feed device. 3,325,070, 6-13-67, Cl. 226—7.

Miller, Charles F., to Basic Products Corp. Air spindle for bonding machines. 3,342,396, 9-19-67, Cl. 228—3.

Miller, Charles F., and R. E. Genter, to Basic Products Corp. Wire feed device. 3,307,761, 3-7-67, Cl. 226—7.

Miller, Charles J., Jr., to The Ohio Brass Co. Apparatus including electrode means for determining electrical condition of aerial booms for energized line working. 3,320,524, 5-16-67, Cl. 324—54.

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Miller, Charles S., E. L. Engelhardt, and M. L. Thominet, to Societe d'Etudes Scientifiques Industrielles de l'Ile-de-France. Heterocyclic amino alkyl benzamides. 3,342,826, 9-19-67, Cl. 260—294.

Miller, Charles W.: *See*—
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Miller, Christopher R., to Documentation, Inc. Portable reader printer. 3,308,713, 3-14-67, Cl. 88—24.

Miller, Clarence J., to General Electric Co. Aluminum brazing. 3,321,828, 5-30-67, Cl. 29—488.

Miller, Clarence J., to General Electric Co. Aluminum brazed article. 3,322,517, 5-30-67, Cl. 29—197.5.

Miller, Clarence L., Jr., to Allegheny Ludlum Steel Corp. Method of forming an insulating coating on silicon iron sheets. 3,331,713, 7-18-67, Cl. 148—113.

Miller, Clarence S., Jr., to Hercules Inc. Ammonia oxidation process for production of nitric acid. 3,356,453, 12-5-67, Cl. 23—162.

Miller, Clifford E. Timer clock with improved reset mechanism. 3,348,008, 10-17-67, Cl. 200—136.3.

Miller, Clinton F., Jr., and R. W. Johnson, to Johnson Ranch. Harvesting vehicle for supporting workers. 3,351,151, 11-7-67, Cl. 180—26.

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Miller, Cyril C., to General Dynamics Corp. Roll corrector brake mechanism. 3,311,325, 3-28-67, Cl. 244—3.1.
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Miller, Cyril V., and D. E. Carlson, to Joslyn Mfg. and Supply Co. Electrical cable connector with cable gripping means. 3,351,703, 11-7-67, Cl. 174—75.

Miller, Daniel B., to International Telephone and Telegraph Corp. Appliance connector. 3,335,394, 8-8-67, Cl. 339—107.

Miller, Daniel B., to International Telephone and Telegraph Corp. Current tap with ground. 3,353,137, 11-14-67, Cl. 339—14.

Miller, Daniel D., and J. Y. Robertson, to Doban Labs, Inc. Automatic bowling scorekeeping apparatus. 3,295,849, 1-3-67. Cl. 273—54.

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Miller, David A. Receptacle with circuit breaker means. 3,351,728, 11-7-67, Cl. 200—167.

Miller, David W.: *See*—
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Miller, Donald B., to Continental Oil Co. Polymerization of trioxane. 3,297,645, 1-10-67, Cl. 260—67.

Miller, Donald B., to Continental Oil Co. Preparation of allenes. 3,300,540, 1-24-67, Cl. 260—680.

Miller, Donald B., to Continental Oil Co. Catalytic process for polymerizing cyclic ethers. 3,344,088, 9-26-67, Cl. 260—2.

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Miller, Donald G.: *See*—
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Miller, Donald G., to American Pulverizer Co. Automatic clearing mechanism for crushers. 3,332,629, 7-25-67, Cl. 241—33.

Miller, Donald L., to The Bendix Corp. Electromagnetic tooth clutch. 3,327,823, 6-27-67, Cl. 192—84.

Miller, Donald L., to Daryl Industries, Inc. Screen roller assembly. 3,341,973, 9-19-67, Cl. 49—420.

Miller, Donald L., and C. A. Mendenhall, to The Bendix Corp. Electromagnetic tooth clutch. 3,307,666, 3-7-67, Cl. 192—84.

Miller, Donald L., N. L. Madison, and D. A. Rausch, to The Dow Chemical Co. Copolymers of perfluoroolefins and an aldehyde and process for preparing same. 3,330,808, 7-11-67, Cl. 260—73.

Miller, Earl A. Safety ski binding. 3,330,572, 7-11-67, Cl. 280—11.35.

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Miller, Edith H.: *See*—
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Miller, Edith H., I. Hechenbleikner, and O. A. Homberg, to Carlisle Chemical Works, Inc. Oxathiolones as stabilizers for chlorine containing polymers. 3,303,161, 2-7-67, Cl. 260—45.75.

Miller, Edward F., to United States of America, Atomic Energy Commission. Process of producing rhenium for tungsten-rhenium alloys by the irradiation of tungsten. 3,324,005, 6-6-67, Cl. 176—10.

Miller, Edwin A. Rotary electric tap switch with improved contact and detent means. 3,337,699, 8-22-67, Cl. 200—11.

Miller, Edwin A., and R. A. Schultheiss, to Texas Instrument Inc. Manufacture of inflated metal products. 3,346,936, 10-17-67, Cl. 29—157.3.

Miller, Edwin J.: *See*—
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Miller, Eldon D., Jr.: *See*—
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Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Manufacture of ceramic objects and the like. 3,304,046, 2-14-67, Cl. 249—142.

Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Refractory catalyst carrier and method of preparation thereof. 3,308,070, 3-7-67, Cl. 252—455.

Miller, Eldon D., Jr. Calcium hexaluminate articles. 3,312,558, 4-4-67, Cl. 106—63.

Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Pouring tube for pressure pouring apparatus. 3,329,201, 7-4-67, Cl. 164—309.

Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Manufacture of kiln furniture. 3,342,615, 9-19-67, Cl. 106—44.

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Mulder, Allan C., and Rasmusen. 3,335,259.

Miller, Ellison. Liquid container and dropper assembly. 3,312,255, 4-4-67, Cl. 141—24.

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Miller, George A., to Diamond Alkali Co. Composition and method for stabilizing soil. 3,306,758, 2-28-67, Cl. 106—84.

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Mehess, William A., and Mineo. 3,356,839.

Miner, Carl S., Jr., K. A. Park, and W. F. Weiss, to Arthur D. Little, Inc. Method of softening textile fabrics. 3,351,483, 11–7–67, Cl. 117—66.

Miner, Claire E., and R. M. Reimers, to United States of America, Atomic Energy Commission. Dual passage cold trap. 3,322,330, 5–30–67, Cl. 230—101.

Miner Industries, Inc.: *See*—
Green, Joseph. 3,343,298.
Swee, Eugene A. 3,355,582.
Swee, Eugene A., and Kelly. 3,312,439.

Miner Machine Co.: *See*—
Pierson, Edward D., and Wright. 3,353,324.

Miner, Robert G., to The Trane Co. Heating control system. 3,297,857, 1–10–67, Cl. 219—369.

Miner, Robert G., to The Trane Co. Control circuit for heat exchange unit with auxiliary electric heater. 3,316,960, 5–2–67, Cl. 165—26.

Miner, W. H., Inc.: *See*—
Allan, William H. 3,348,633.
Carlson, Harold J., and Olander. 3,314,706.
Carlson, Harold J., and Stinnett. 3,341,241.
Hallberg, John E. 3,313,563.
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Olander, Roland J. 3,312,493.
Olander, Ronald J. 3,329,456.
Olander, Roland J. 3,337,994.
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Miner, Warren M., and A. A. Yamasaki, to The Solocast Co. Record driving apparatus for portable phonograph. 3,338,580, 8–29–67, Cl. 274—39.

Miner, Warren M., and A. A. Yamasaki, to The Solocast Co. Apparatus for holding the record on the turntable of a portable phonograph. 3,338,581, 8–29–67, Cl. 274—39.

Miner, William W. Bearing support means for rotor. 3,329,357, 7–4–67, Cl. 241—285.

Minera, Salvador A. Fishing rod casting device. 3,305,963, 2–28–67, Cl. 43—24.

Minera, Salvador A. Fruit stemmer and method. 3,323,571, 6–6–67, Cl. 146—238.

Minera, Salvador A. Fishing device and combination. 3,325,938, 6–20–67, Cl. 43—18.

Mineral Concentrates and Chemical Co., Inc.: *See*—
Johnston, Theodore L. 3,300,147.

Mineral Deposits Pty. Ltd.: *See*—
Reichert, Ernst. 3,319,788.

Mineral Industries Corp. of America: *See*—
Cohn, Morris I., and Perdue. 3,307,790.
Cohn, Morris I., and Perdue. 3,348,778.

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Duke, James B. 3,326,705.
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Ferrigno, Thomas H. 3,300,326.
Ferrigno, Thomas H. 3,300,437.
Ferrigno, Thomas H. 3,301,812.
Ferrigno, Thomas H. 3,312,640.
Greene, Ernest W. 3,302,785.
Greene, Ernest W., and Cecil. 3,315,015.
Greene, Ernest W., and Duke. 3,314,537.
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Haden, Walter L., Jr., and Dzierzanowski. 3,338,672.
Hemstock, Glen A., and Bergmann. 3,301,691.
Hemstock, Glen A., and Bergmann. 3,303,035.
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Mercade, Venancio. 3,301,695.
Mercade, Venancio. 3,331,505.
Mercade, Venancio. 3,337,048.
Sagar, Lester R. 3,346,197.
Sawyer, Edgar W., Jr., and Haden. 3,341,340.

Minervini, Frank, and T. Fugel. Invisible molding fastener. 3,298,145, 1–17–67, Cl. 52—127.

Mines, Jamea A., to Bell Telephone Laboratories, Inc. Bipolar transistor amplifier for telephone set use. 3,299,215, 1–17–67, Cl. 179—81.

Ming, Yip, E. F.-C. Li, and Y.-C. Cheng, to Sonca Industries Ltd. Pocket flashlight having clip and switch construction. 3,351,723, 11–7–67, Cl. 200—60.

Mingaud, Andre, to International Standard Electric. Blocking oscillator with turn-off effected by magnetizing current in a self-inductance coil. 3,303,352, 2–7–67, Cl. 307—88.5.

Mingrone, Frank V., and D. L. Morgan, to Robertshaw Controls Co. Valve construction and parts therefor or the like. 3,357,453, 12–12–67, Cl. 137—625.63.

Mini, Iti, to Montecatini Edison S.p.A. Process for obtaining potassium sulfate from mineral salts comprising potassium-magnesium sulfates and chlorides, particularly kainitic mineral. 3,328,120, 6–27–67, Cl. 23—121.

Minick, Harold N.: *See*—
Knudson, Robert F., Minick, and Hoag. 3,322,405.

Minieri, Pasquale P., to Tenneco Chemicals, Inc. Benzylidene hydrazine pesticides. 3,305,347, 2–21–67, Cl. 71—2.3.

Minigrip, Inc.: *See*—
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Luca, Jacob L. 3,320,340.

Minikay A.G.: *See*—
Niemann, Hans H. R. 3,349,572.

Mining Engineering Co., Ltd., The: *See*—
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Mining Progress Inc.: *See*—
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Minisci, Francesco, U. Pallini, and R. Galli, to Montecatini Edison S.p.A. Process for the preparation of chlorinated ethers. 3,299,149, 1–17–67, Cl. 260—614.

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Minister of Aviation in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland: *See*—
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Barwood, Antony J., Fisher, and Fitzgerald. 3,329,464.
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Southern, David. 3,323,053.
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Minix, William A., to Freeland Gauge Co. Precision pneumatic relay. 3,349,605, 10–31–67, Cl. 73—37.9.

Minix, William A., to Freeland Gauge Co. Air gauge. 3,352,145, 11–14–67, Cl. 73—379.

Minjolle, Louis, to Commissariat a l'Energie Atomique. Control device for metalizing gun. 3,318,359, 5–9–67, Cl. 158—125.

Mink, William H.: *See*—
Sachsel, George F., and Mink. 3,319,344.

Minkhorst, Jan H., and H. F. Maris. Heat exchange of bypass air feed with liquid product. 3,358,462, 12–19–67, Cl. 62—37.

Minkin, Herbert L., and H. F. Hobart, to United States of America, National Aeronautics and Space Administration. Liquid flow sight assembly. 3,323,484, 6–6–67, Cl. 116—117.

Minks, Floyd M., to Kiekhaefer Corp. Blocking oscillator power converter utilizing a control of a transformer reflected voltage indicative of the load. 3,302,130, 1–31–67, Cl. 331—112.

Minks, Floyd M., to Kiekhaefer Corp. Electrical terminal unit. 3,359,530, 12–19–67, Cl. 339—126.

Minneapolis-Honeywell Regulator Co.: *See*—
Ramsay, Alan J. 3,359,431.
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Thompson, Howard J., and West. 3,299,714.

Minneapolis Scientific Controls Corp.: *See*—
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Minneman, Lester C., D. E. Powell, and B. W. Spear, to Owens-Illinois, Inc. Reinforced cathode-ray tube and face plate therefor. 3,314,566, 4–18–67, Cl. 220—2.1.

Minneman, Lester C., D. E. Powell, and B. W. Spear, to Owens-Illinois, Inc. Reinforced cathode-ray tube and face plate therefor. 3,350,154, 10–31–67, Cl. 316—19.

Minnesota Mining and Mfg. Co.: *See*—
Abere, Joseph F. 3,316,202.
Abler, Roger L., and Anderson. 3,355,844.
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Ashley, Paul E., La Zerte, and Seffi. 3,345,277.
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Balint, John V. 3,312,365.
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Bejach, Benton. 3,318,546.
Bejach, Benton. 3,318,547.
Benjamin, John G. 3,358,554.
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Billings, Thomas J., Jr., and Micchelli. 3,321,434.
Boese, Alvin W. 3,309,260.
Bollmeier, Emil W. 3,324,223.
Bond, Herbert M., and Snell. 3,298,992.
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Bradford, Robert S., and Leeke. 3,356,921.
Brown, Harvey A. 3,326,889.
Bryan, Thomas T. 3,310,403.
Bullock, Earl R. 3,325,804.
Capps, John P. 3,355,743.
Casey, James H. 3,338,125.
Coles, Robert F. 3,352,670.
Comerci, Frank A., and Slaker. 3,360,614.
Courneya, Calice G., and Todd. 3,347,269.
Crawford, George H., Jr., and Rice. 3,321,454.
Creigh, Walter F. 3,351,514.
Danielson, Alton J., and Berg. 3,331,729.
Dekker, Frank. 3,297,272.
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Deziel, Edward W. 3,295,977.
Divon, George M. 3,318,852.
Dubbe, Richard F. 3,345,639.
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Duwe, Robert W. 3,328,775.
Duwell, Ernest J. 3,311,485.
Dybvig, Douglas H. 3,358,028.
Eckman, Charles B., and Wilson. 3,350,256.
Errede, Louis A. 3,299,126.
Errede, Louis A. 3,357,977.
Erwin, James V. 3,314,838.
Eubank, William R. 3,312,923.
Eubank, William R., and Cross. 3,312,924.
Eubank, William R., and Walker. 3,312,922.
Evensen, Thomas J. 3,299,807.
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Fram, Paul, and Smith. 3,318,930.
Fritts, Robert W. 3,326,727.
Gaspar, Bela. 3,334,995.
Gerfast, Sten R. 3,315,909.
Golben, Michael, and Pearson. 3,330,769.
Good, Paul J. 3,320,865.
Good, Paul J. 3,322,053.
Good, Paul J. 3,348,964.
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Gregg, David P. 3,350,503.
Grotenhuis, Ivan M., and Halva. 3,334,050.
Hansen, Robert L. 3,346,612.
Harnish, Wayne O. 3,330,495.
Harrison, George C. 3,355,196.
Hatch, Robert A., and Tolzmann. 3,303,052.
Hedin, Roland C. 3,327,960.
Henrichson, Charles H., Danielson, and Erwin. 3,301,741.
Hervig, Harold C. 3,296,688.
Hervig, Harold C. 3,324 234.
Holmberg, Berten A. 3,347,984.
Honn, Francis J., and Sims. 3,318,854.
Hurst, Arthur H. 3,340,386.
Husted, Donald R., and Koshar. 3,354,216.
Ito, Jack J. 3,359,101.
Johnson, Wayne R. 3,327,299.
Johnson, Wayne R. 3,350,511.
Jones, Derrick A. 3,329,849.
Jones, Derrick A. 3,354,804.
Kaspaul, Alfred F., and Christensen. 3,317,409.
Kaspaul, Alfred F. and E. E. 3,333,984.
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Lazerte, James D., and Guenthner. 3,321,445.
Leahy, Sidney M., and Tanquary. 3,318,658.
Linse, La Vern L., and Hipp. 3,328,574.
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Mattson, John R. 3,326,928.
Moskovitz, Irving. 3,328,521.
Mullin, John T., and Clunis. 3,346,703.
Nestor, Leonard R. 3,348,917.
Norton, Robert E. 3,298,873.
O'Brien, Donald L. 3,308,853.
Olson, Melvin M. 3,326,741.
Owen, Richard. 3,315,598.
Owen, Richard. 3,328,167.
Page, Mary A. 3,300,333.
Pankow, Paul A. H. 3,323,790.
Pastor, Sheldon L., Rom, and Zarr. 3,309,933.
Plank, William J., Jr. 3,331,077.
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Rambosek, George M. 3,297,519.
Rebertus, Robert L., and Gagnon. 3,355,492.
Renfrew, Edgar E. 3,329,590.
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Shrewsbury, Raymond W. 3,318,697.
Simon, John G. 3,328,197.
Sirignano, Stanley R., and Stifter. 3,312,250.
Skoog, Ivan H. 3,305,569.
Smith, Alan J., and Warren. 3,305,459.
Smith, Carl M. 3,329,737.
Smith, Carl M., and Wear. 3,350,352.
Smith, Gordon R. 3,309,221.
Smith, Samuel, and Sherman. 3,329,661.
Smith, Samuel, and Sherman. 3,330,812.
Smith, Samuel, and Sherman. 3,356,628.
Sowman, Harold G. 3,321,285.
Sowman, Harold G., and Johnson. Re. 26,294.
Stack, Thomas N. 3,307,530.
Stack, Thomas N. 3,307,612.
Stevens, Edward J., and Brown. 3,330,720.
Stricklin, Buck. 3,360,367.
Stupar, Timothy D. 3,328,599.
Swanson, Roger E. 3,355,393.
Tanquary, Albert C., and Riedesel. 3,324,061.
Taylor, Charles W. 3,342,874.
Thomsen, Donald L., and Anderson. 3,355,760.
Tomita, Jun. 3,340,212.
Vogel, Herward A. 3,321,449.
Wall, Thomas H., and Hansen. 3,316,904.
Walz, Richard N. 3,329,817.
Watkins, Nathaniel L., Jr. 3,334,374.
Watkins, Nathaniel L., Jr., and McCurdy. 3,301,831
Will, Gerlad H. 3,353,660.
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Minnesota Rubber Co.: *See*—
Rentschler, John H. 3,322,433.

Minnich, Basil H.: *See*—
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Minnich, Stephen H.: *See*—
Watrous, Donald L., and Minnich. 3,305,699.

Minnich, Stephen H., and T. A. Buchhold, to General Electric Co. Protective circuits for superconductive loads. 3,304,-466, 2–14–67, Cl. 317—13.

Minnick, Joseph J., to Commercial Solvents Corp. Gelled nitromethane explosive containing fluid encapsulations. 3,338,165, 8–29–67, Cl. 102—27.

Minnick, Joseph J., and R. D. Sarson. Booster. 3,359,902, 12–26–67, Cl. 102—24.

Minnick, Pasco A., to Bowles Engineering Corp. Hot wire anemometers. 3,354,717, 11–28–67, Cl. 73—204.

Minnick, Robert C., to Stanford Research Institute. Microelectronic cellular array. 3,313,926, 4–11–67, Cl. 235—175.

Minnie Punch & Die Co., Inc.: *See*—
Bennett, Edward D. 3,334,406.
Bennett, Edward D. 3,345,896.

Minns, Thomas A., and H. H. Hopkins, to W. Watson & Sons Ltd. Binocular stereoscopic microscope having substantially achromatic wedge prisms adjacent common front objective lens. 3,353,892, 11–21–67, Cl. 350—36.

Mino, Guido, and J. H. Thelin, to American Cyanamid Co. Process for stabilizing vulcanized acrylic elastomers. 3,335,110, 8–8–67, Cl. 260—45.9.

Minogue, Roland E. Clips with dual clamping devices. 3,314,-120, 4–18–67, Cl. 24—137.

Minolta Camera Kabushiki Kaisha: *See*—
Hayashi, Toshio. 3,335,695.
Ishikawa, Toshio. 3,311,040.
Ishikawa, Toshio, and Noda. 3,331,945.
Okishima, Yoshiro, and Murata. 3,308,717.
Yoshiyama, Ichiro, Kobayashi, and Konishi. 3,309,974.

Minor, George W.: *See*—
Macchia, Thomas L., and Minor. 3,305,812.

Minor, John T.: *See*—
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Minor, John T., to Continental Oil Co. Heavy duty liquid detergent. 3,320,173, 5–16–67, Cl. 252—137.

Minor, Leon C.: *See*—
Bush, Austin L., Jerman, McDurmont, Minor, and Walton. 3,323,095.

Minor, Leon C., to Anderson Electric Corp. Contacts. 3,323,-102, 5–30–67, Cl. 339—258.

Minor, William F., to Bristol-Myers Co. 2-(2′-pyridyloxy) ethyl guanidine derivatives. 3,341,546, 9–12–67, Cl. 260—296.

Minor, William F., to Bristol-Myers Co. Certain pyridylmethyl guanidine derivatives. 3,352,878, 11–14–67, Cl. 260—296.

Minor, William F., to Bristol-Myers Co. Heterocyclicamino methylene ethers of benzylphenols. 3,360,526, 12–26–67, Cl. 260—294.7.

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Minsk, Louis M., and H. L. Cohen, to Eastman Kodak Co. Polymeric hardners for gelatin. 3,296,155, 1–3–67, Cl. 260—8.

Minsk, Louis M., and H. L. Cohen, to Eastman Kodak Co. Polymeric hardeners for gelatin. 3,306,750, 2–28–67, Cl. 96—111.

Minsk, Louis M., and H. L. Cohen, to Eastman Kodak Co. Polymeric hardeners for gelatin. 3,308,075, 3–7–67, Cl. 260—8.

Minsk, Louis M., and E. P. Abel, to Eastman Kodak Co. Photographic element. 3,316,097, 4–25–67, Cl. 96—114.

Minsk, Louis M., and H. L. Cohen, to Eastman Kodak Co. Polymeric hardeners for gelatin. 3,330,664, 7–11–67, Cl. 96—111.

Minskoe Spetsialnoe Konstruktorskoe Bjuro tekstilnoi i legkoi promyshlennosti: *See*—
Khibnik, Iosif N. 3,358,841.

Minsky Avtomobilny Lavod: *See*—
Mukho, Veniamin I. 3,329,229.

Minster Machine Co., The: *See*—
Bergman, Roland J. 3,334,581.
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Duffee, Paul Y., and Bergman. 3,327,575.
Dunlap, Norman. 3,301,611.

Minteer, William B., to Discon Corp. Extroversive catheter. 3,332,424, 7–25–67, Cl. 128—349.

Minter, Jerry B. Multi-circuit separable connector for printed circuit boards and the like. 3,340,440, 9–5–67, Cl. 317—101.

Mintey, Daniel T. H. Heavy duty brushes. 3,332,100, 7–25–67, Cl. 15—198.

Minton, Robert G., to Rohm & Haas Co. Process for producing guanidine-substituted cross-linked poly(vinyl aromatic) anion exchange resins. 3,346,516, 10–10–67, Cl. 260—2.1.

Mintz, Charles. Control leash. 3,332,398, 7–25–67, Cl. 119—109.

Mintz, Leon J.: *See*—
Block, Charles, and Mintz. 3,339,810.

Mintz, Milton S., to American Machine & Foundry Co. Method of forming acid in concentrating chambers of electrodialysis apparatus. 3,318,788, 5–9–67, Cl. 204—130.

Mintz, Milton S., and W. J. Nellen, to American Machine & Foundry Co. Electrodialysis apparatus having gaskets and membranes aligned to reduce leakage. 3,318,795, 5–9–67, Cl. 204—301.

Mintz, Noah: *See*—
Berkowitz, George. 3,300,807.

Miodus, Stanley: *See*—
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Miolla, Ralph J., Jr.: *See*—
Marraffino, Leonard L., and Miolla. 3,298,611.

Mira Corp., The: *See*—
Douglas, William A. 3,325,659.

Mirabelli, Richard E., to Melpar, Inc. Method and apparatus for training self-organizing networks. 3,341,822, 9–12–67, Cl. 340—172.5.

Miraky, Alexander. Method and apparatus for preparing warp by dividing sheet material longitudinally. 3,336,645, 8–22–67, Cl. 28—1.

Miranda, Thomas J., to The O'Brien Corp. Water soluble condensation polymers. 3,329,635, 7–4–67, Cl. 260—22.

Miranda, Thomas J., and H. R. Herman, to The O'Brien Corp. Epoxy resins based on diphenolic acid derivatives. 3,296,-160, 1–3–67, Cl. 260—18.

Miranda, Thomas J., and H. R. Herman, to The O'Brien Corp. Solid propellant fuel composition containing epoxy resins based on diphenolic acid derivatives. 3,344,003, 9–26–67, Cl. 149—19.

Mirapak Inc.: *See*—
Blodgett, Stewart R. 3,342,225.

Mirarchi, Giacinto, and F. Tirone. Hydraulic brake fluid level indicator. 3,319,240, 5–9–67, Cl. 340—244.

Mirel, Arthur G. Automatic article-transporting system. 3,338,177, 8–29–67, Cl. 104—88.

Mirgel, Karl H.: *See*—
Grigull, Hans, and Mirgel. 3,335,462.

Mirguet, Marcel. Jug with an incorporated system of refrigeration. 3,359,756, 12–26–67, Cl. 62—457.

Mirocha, Chester J.: *See*—
Eloy, Fernand, and Mirocha. 3,347,874.

Miron, George J.: *See*—
McGee, Joseph S., Miron, and Pitt. 3,296,753.

Mirra-Cote Co., Inc.: *See*—
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Mirrlees National Ltd.: *See*—
Pope, Joseph A., and Krzyzewski. 3,345,976.

Mirror Polishing and Plating Co., Inc., The: *See*—
Nalband, Thomas E. and Eugene R., and Delaney. 3,300,-288.

Mirus, Ferdinand, to Allis-Chalmers Mfg. Co. Tail wheel reversing mechanism for spinner plows (gravity actuated latched). 3,356,161, 12–5–67, Cl. 172—212.

Mirviss, Stanley B., H. W. Dougherty, Jr., and R. W. Looney, to Esso Research and Engineering Co. Catalysts of transition metal borohydride complexes. 3,310,547, 3–21–67. Cl. 260—93.7.

Mirviss, Stanley B., and A. F. Kopacki, to Stauffer Chemical Co. Polymeric compositions stabilized with esters of a thiofumaric acid. 3,342,773, 9–19–67, Cl. 260—45.85.

Mirviss, Stanley B., and P. S. Skell, to Esso Research and Engineering Co. Ketones from saturated hydrocarbons and carbon monoxide. 3,356,720, 12–5–67, Cl. 260—533.

Mirviss, Stanley B., and A. F. Kopacki, to Stauffer Chemical Co. Poly-α-olefin compositions containing N,N,N′,N′-tetralkylphosphorodiamidothioic acid and esters thereof. 3,359,233, 12–19–67, Cl. 260—45.9.

Misaka, Yukio, and K. Sakashita, to Isuzu Motors Ltd. Door open-and close mechanism. 3,344,554, 10–3–67, Cl. 49—289.

Misaki, Tetsuo: *See*—
Sawada, Jiro, Misaki, Yamagishi, and Kitahara. 3,338,-719.

Misare, Donald O., to Joslyn Mfg. and Supply Co. Frangible fuse cap. 3,344,251, 9–26–67, Cl. 200—127.

Mišárek, Dušan: *See*—
Beran, Jaromir, Mišárek, and Futera. 3,349,997.

Misawa, Masanaru: *See*—
Nara, Takashi, Misawa, and Komuro. 3,359,177.

Misawa, Toshio, to Bell-Telephone Laboratories, Inc. Apparatus employing avalanche transit time diode. 3,356,886, 12–5–67, Cl. 307—88.5.

Misbin, Theodore J., and D. M. Fisher, to Radio Corp. of America. Document stacker. 3,333,843, 8–1–67, Cl. 271—71.

Misceramic Tile: *See*—
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Misch, Arthur, and R. W. Messner. Plastic shingle with interfitting means. 3,309,831, 3–21–67, Cl. 52—546.

Mischanski, Myron S. Grinding mill. 3,339,853, 9–5–67, Cl. 241—110.

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Misencik, John, C. Mackiewicz, and C. T. Poarch, to Harvey Hubbell, Inc. Locking electrical connector. 3,350,675, 10–31–67, Cl. 339—12.

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Misevich, Kenneth W., and H. M. Sullivan, to Johnson Service Co. Humidity sensing element. 3,350,941, 11–7–67, Cl. 73—336.5.

Mishcon, Sam, to The Singer Co. Knitting machine drive mechanisms. 3,352,128, 11–14–67, Cl. 66—56.

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Miskel, John J., and W. Schlesinger, to White Laboratories, Inc. Calcium salts of lightly cross-linked ethylenically unsaturated carboxylic acids and diethylenically unsaturated aliphatics. 3,297,664, 1–10–67, Cl. 260—80.3.

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Miskin, Richard B. and M. R. Method of stacking and loading bales. 3,357,577, 12–12–67, Cl. 214—152.

Mislan, Joseph D., to Systems Matrix, Inc. Safety ejection controls for casting machines. 3,303,537, 2–14–67, Cl. 22—94.

Mislan, Joseph D., to Systems Matrix, Inc. Semiconductor-controlled power circuit having a single-pole, double-throw switching action. 3,337,741, 8–22–67, Cl. 307—41.

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Missbach, Gunther. Apparatus for continuously shaping plastic materials. 3,314,110, 4–18–67, Cl. 18—21.

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Misson, George W., to Pittsburgh Plate Glass Co. Apparatus for producing sheet glass. 3,300,291, 1–24–67, Cl. 65—159.

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Mistretta, Victor S. Disposable cylindrical razor apparatus. 3,299,507, 1–24–67, Cl. 30—49.

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Mitchell, Abraham J., and P. R. Jarvi, to The Mitchell-Bradford Chemical Co. Metal treating compositions and processes. 3,314,811, 4–18–67, Cl. 106—286.

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Mitchell, Charles V., to Union Carbide Corp. Carbon foam. 3,302,999, 2–7–67, Cl. 23—209.2.

Mitchell, Charles V., and J. C. Lewis, to Union Carbide Corp. Coking a mixture of a hydrocarbon and quinone. 3,347,776, 10–17–67, Cl. 208—46.

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Mitchell, Edward C. Goose decoy. 3,350,808, 11–7–67, Cl. 43—3.

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Mitchell, Hartman, and R. W. Walker, to Koppers Co., Inc. Evaporation chamber for a basic oxygen furnace. 3,345,057, 10–3–67, Cl. 266—35.

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Mitchell, John. Damper system. 3,322,417, 5–30–67, Cl. 263—46.

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Moiroux, Auguste, and E. Salel, to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S.A. Valve control devices, in particular for gas turbine power plants. 3,306,031, 2–28–67, Cl. 60—13.

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Moiso, Ugo, and S. S. Papa, to Aziende Colori Nazionali Affini-ACNA S.p.A. Metallized monoazo complexes. 3,309,354, 3–14–67, Cl. 260—145.

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Moister, Douglas E., Jr.: *See*—
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Mojden, Wallace W., and N. J. Chivas, to Fleetwood Systems, Inc. Aerodynamic can end stacker. 3,337,064, 8–22–67, Cl. 214—7.

Mojelski, William. Tension actuated clamp. 3,355,777, 12–5–67, Cl 24—81.

Mojonnier Bros. Co.: *See*—
Kurczak, Wladyslaw F. 3,329,286.

Moke, Harold C., and J. M. F. Leathers, to The Dow Chemical Co. Process for the purification of amines. 3,337,630, 8–22–67, Cl. 260—583.

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Molby, Lloyd A., to Eaton Yale & Towne Inc. Double articulated tractor shovel. 3,305,039, 2–21–67, Cl. 180—51.

Moiby, Lloyd A., to Eaton Yale & Towne Inc. Variable rate steering for articulated vehicle. 3,340,949, 9–12–67, Cl. 180—79.2.

Mold, James D., A. G. Kallianos, and F. A. Shelburne, to Liggett & Myers Tobacco Co. Tobacco incorporating carbonate esters of flavorants. 3,332,428, 7–25–67, Cl. 131—17.

Moldcast Mfg. Co.: *See*—
Lasker, Martin L. 3,324,290.
Lasker, Martin L. 3,359,415.

Molden, Harris L., and A. C. Olson. Wheel lift. 3,301,419, 1–31–67, Cl. 214—332.

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Molenaar, H. G., & Co. (Proprietary) Ltd.: *See*—
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Molenda, Daniel A. Support for liquid container. 3,312,441, 4–4–67, Cl. 248—210.

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Moles, Jimmy D.: *See*—
Brandreth, Franklin B., and Moles. 3,310,926.

Molidor, Joseph L. High frequency display device with movable gas filled ball moving through a transparent tube. 3,307,060, 2–28–67, Cl. 313—1.

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Molin, Charles, and M. Pinchemel, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Junction device for removable panels. 3,295,876, 1–3–67, Cl. 287—189.36.

Molin, Urban, to Aktiebolaget W. Dan Bergman. Electrical apparatus and machines for protection against fire and explosion hazards. 3,335,323, 8–8–67, Cl. 317—13.

Molina, Joseph, H. Morello, and J. E. Lopez, to Sperry Rand Corp. Tape guide. 3,319,861, 5–16–67, Cl. 226—199.

Molina, Orlando G., to North American Avitation, Inc. Resolving method comprising printing caused by impingement of a paramagnetic particulate. 3,344,345, 9–26–67, Cl. 324—38.

Mollnari, James J. Golf swing training device. 3,360,268, 12–26–67, Cl. 273—186.

Moline, Douglas F., to Acme Juicer Mfg., Co. Fruit juicing adapter for vegetable juicing machines. 3,352,339, 11–14–67, Cl. 146—76.

Moline, Sheldon W., and A. W. Rowe, to Union Carbide Corp. Process for cell preservation. 3,303,662, 2–14–67, Cl. 62—62.

Molinet, Georges, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Process for deodorising liquefied hydrocarbons, particularly commercial butane. 3,310,595, 3–21–677, Cl. 260—676.

Molinet, Georges, and G. Durand, to Societe Nationale des Petroles d'Aquitaine. Process for obtaining non-lumping sulphur. 3,314,763, 4–18–67, Cl. 23—224.

Molinet, Georges, G. Durand, and J. Mestrelt, to Societe Nationale des Petroles d'Aquitaine. Improving fungistatic thiourea wood-blueing prevention and wood-protection compositions with polyethylene-glycol alkyl thioether. 3,317,375, 5–2–67, Cl. 167—38.6.

Molinet, Georges, and A. Lavion, to Societe Nationale des Petroles d'Aquitaine. Plastic sulphur composition. 3,342,620, 9–19–67, Cl. 106—287.

Molinet, Georges, and B. Audouze, to Societe Nationale des Petroles d'Aquitaine. Corrosion inhibitor. 3,357,924, 12–12–67, Cl. 252—171.

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Molins, Desmond W., to The Molins Organisation Ltd. Apparatus for manufacturing composite filter plugs. 3,312,151, 4–4–67, Cl. 93—1.

Molins, Desmond W., to The Molins Organisation Ltd. Feeding systems. 3,314,520, 4–18–67, Cl. 198—31.

Molins, Desmond W., to The Molins Organisation Ltd. Filter tips for cigarettes. 3,320,960, 5–23–67, Cl. 131—265.

Molins, Desmond W., to The Molins Organisation Ltd. Tobacco cutting machines. 3,320,991, 5–23–67, Cl. 146—119.

Molins, Desmond W., to The Molins Organisation Ltd. Feeding structure for tobacco cutting means. 3,335,730, 8–15–67, Cl. 131—136.

Molins, Desmond W., to Molins Machine Co. Ltd. Packets. 3,343,747, 9–26–67, Cl. 229—51.

Molins, Desmond W., G. F. W. Powell, and F. Pocock, to The Molins Organisation, Ltd. Tobacco-manipulating machines. 3,306,304, 2–28–67, Cl. 131—21.

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Labbe, Francis A. M. 3,338,247.
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Moll, Hans H., and G. Dickore, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Horizontal boring and cutting mill. 3,303,745, 2–14–67, Cl. 90—11.

Moll, Jack E., to Miller Flit-Top Trailer, Inc. Trailer latch. 3,331,635, 7–18–67, Cl. 298—38.

Moll, John L., to Hewlett-Packard Co. Two terminal storage circuit employing single transistor and diode combination. 3,299,290, 1–17–67, Cl. 307—88.5.

Moll, Otto: *See*—
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Moll, Werner, to Firma Werner Moll. Apparatus for the production of negatives by mechanical means. 3,354,500, 11–28–67, Cl. 18—1.

Moll, Werner, Firma: *See*—
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Moll, Willard H.: *See*—
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Moller, Frederik A., H. Kliphuis, and J. R. Schoemaker, to W. A. Scholten's Chemische Fabrieken N.V. Monosaccharide and oligosaccharide polyethers. 3,324,108, 6–6–67, Cl. 260—209.

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Möller, Hugo, to Saab Aktiebolag. Cup-shaped diaphragm for hydraulic forming press. 3,334,504, 8–8–67, Cl. 72—63.

Moller, Jens L., to Reynolds Metals Co. Method for making thin metal sheet tapered receptacles. 3,344,646, 10–3–67, Cl. 72—348.

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Moller, Waldemar, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Automatic pilot. 3,296,873, 1–10–67, Cl. 74—5.34.

Moller, Waldemar, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Stabilized automatic pilot for high speed flight. 3,310,721, 3–21–67, Cl. 318—18.

Möller, Waldemar, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Magnetic control stick system. 3,331,971, 7–18–67, Cl. 310—10.

Möller, Waldemar, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Magnetic control stick system. 3,331,972, 7–18–67, Cl. 310—10.

Moller, Werner, to Oerlikon Engineering Co. Epoxy resin and method of accelerating the curing process thereof. 3,316,215, 4–25–67, Cl. 260—47.

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Mollon, Leslie, S. J. Rykwalder, and A. D. Pinchot, to Brooks & Perkins, Inc. Aircraft cargo loading system and components. 3,335,983, 8–15–67, Cl. 244—137.

Molls, Hans H., R. Hornle, H. Raab, F. Bechlars, and G. Steimetz, to Farbenfabriken Bayer Aktiengesellschaft. Process and device for the continuous production of dispersions. 3,309,030, 3–14–67, Cl. 241—21.

Molls, Hans H., R. Hörnle, H. Raab, and E. Müller, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for the production of aqueous dispersions of solids insoluble in water. 3,352,500, 11–14–67, Cl. 241—74.

Molnar, Eugene, to Coe Laboratories Inc. Method of molding urethane. 3,355,526, 11–28–67, Cl. 264—16.

Molnar, Istvan, T. Wagner-Jauregg, U. Jahn, and G. Mixich, to Siegfried Aktiengesellschaft. Therapeutically valuable 1,2-dihydro-1,2,4-benzotriazine derivatives and process for preparation thereof. 3,349,088, 10–24–67, Cl. 260—248.

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Molsberry, Clinton C. Method and composition for preservation of mushrooms. 3,342,610, 9–19–67, Cl. 9—154.

Molstedt, Byron V., R. O. Maak, and L. J. Delaune, to Esso Research and Engineering Co. Electrode installation. 3,305,619, 2–21–67, Cl. 13—20.

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Molt, Kenneth R., I. Hechenbleikner, and O. A. Homberg, to Carlisle Chemical Works, Inc. Tetravalent stabilizers. 3,305,573, 2–21–67, Cl. 260—448.8.

Molt, Kenneth R., and I. Hechenbleikner, to Carlisle Chemical Works, Inc. Preparation of distannanes. 3,311,649, 3–28–67, Cl. 260—429.7.

Moltchan, Floyd J. Apparatus for punching interlocking tabs in steel strips. 3,357,078, 12–12–67, Cl. 29—21.1.

Molter, Stanley H., to Square D Co. Timer and timer control contactor combination. 3,315,191, 4–18–67, Cl. 335—67.

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Momchilovich, Milan, and W. F. Rhodes, to The Falls Stamping and Welding Co. Burner and its operation. 3,348,598, 10–24–67, Cl. 158—4.

Mommsen, Ernst, H. Rosewicz, and J. Schoenmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for the production of welded bags from thermoplastic tubular sheeting. 3,304,217, 2–14–67, Cl. 156—499.

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Mon, George, and J. W. Joyce, Jr., to United States of America, Army. Fluid amplifier-driven oscillator. 3,340,896, 9–12–67, Cl. 137—624.13.

Monaco, Anthony J. Variable intensity massaging device. 3,335,717, 8–15–67, Cl. 128—33.

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Monaco, Arthur N., to W. H. Swanson & Co., Inc. Apparatus for applying to containers closure blanks having locking bands. 3,336,728, 8–22–67, Cl. 53—334.

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Monagle, Daniel J., and W. P. Shyluk, to Hercules Inc. Preparation of acrylamide-type water-soluble polymers. 3,336,269, 8–15–67, Cl. 260—79.3.

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Monballu, Marcel J., A. H. DeCat, and R. K. Van Poucke, to Gevaert Photo-Producten N.V. Process for the preparation of 3-acylamino-5-pyrazolones and 3-ureido-5-pyrazolones. 3,325,482, 6–13–67, Cl. 260—239.7.
Moncada, Alfonso and V. and J. Method of purifying dry cleaning solvents. 3,309,166, 3–14–67, Cl. 8—142.
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Spence, Gerald M. 3,305,613.
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Monpetit, Louis, to Gemoter S.A. Engine starting device. 3,297,007, 1–10–67, Cl. 123—46.
Monrad-Krohn, Lars, to United States of America, Atomic Energy Commission. Waveform detector using amplitude comparison of time-spaced samples of the waveform. 3,334,-298, 8–1–67, Cl. 324—77.
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Monroe, Charles Z.: *See*—
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Monroe, Charles Z., and H. B. Egleston, to Ex-Cell-O Corp. Machine for forming, filling, closing and sealing plastic coated paperboard containers. 3,303,761, 2–14–67, Cl. 93—44.1.
Monroe, Charlie M., to Melpar, Inc. Transistorized phase comparator wherein all the transistors operate in class A. 3,305,777, 2–21–67, Cl. 324—89.
Monroe, Ernest M., to Victor Metal Products Corp. Injection moulded plastic tube and method. 3,356,263, 12–5–67, Cl. 222—107.
Monroe, George C., Jr., and G. N. Hammer, to E. I. du Pont de Nemours and Co. Method for reacting hydrogen cyanide with olefins. 3,297,742, 1–10–67, Cl. 260—465.8.
Monroe, Harry A., Jr.: *See*—
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Monroe, James H. Method and means of improving firearm accuracy. 3,350,807, 11–7–67, Cl. 42—75.
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Monroe, Joseph W., J. L. Murphy, Jr., M. H. Larimer, R. H. Brown, and M. R. Potts, to Thiokol Chemical Corp. Apparatus for the reclamation of solid propellant rocket motor cases. 3,312,231, 4–4–67, Cl. 134—111.
Monroe, Joseph W., G. K. Grace, and R. O. Hessler, to United States of America, Army. Positioning device for center of gravity locating apparatus. 3,320,794, 5–23–67, Cl. 73—65.
Monroe, Joseph W., G. K. Grace, and R. O. Hessler, to United States of America, Army. Center of gravity locating device. 3,320,795, 5–23–67, Cl. 73—65.
Monroe, Robert E., and J. J. Vagi, to United States of America, Atomic Energy Commission. Forming projections on tubes. 3,354,290, 11–21–67, Cl. 219—152.
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Dun, Alan, and Fox. 3,297,788.
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Ayad, Kamal N. 3,312,672.
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Dibbo, Alan, and McCall. 3,320,219.
Evans, John E., and Brown. 3,330,768.
McCall, Ernest B., and Blackman. 3,328,473.
Neale, Alan J., and Rawlings. 3,345,292.
Payne, John. 3,351,123.
Taylor, Keith R., and Brown. 3,305,521.
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Abell, Joseph B., Jr., Fannin, and Roth. 3,315,007.
Abell, Joseph B., Jr., Fannin, and Roth. 3,315,008.
Abramo, John G. 3,297,665.
Alexander, Stephen H., Butler, and Juhl. 3,318,801.
Alexander, Stephen H., and Montgomery. 3,349,051.
Alul, Husni R., Clark, and McEwan. 3,349,144.
Anagnostopoulos, Constantine E., and Coran. 3,345,400.
Andersen, Harry M., Holladay, and Johnson. 3,356,658.
Anderson, George J., and Williams. 3,297,620.
Apperson, Charles H., and Misenheimer. 3,313,758.
Aubrey, Norman E., and Normandin. 3,328,365.
Aykanian, Ardashus A. 3,324,210.
Aykanian, Ardashus A., Hing, and Wohl. 3,354,025.
Bach, Hartwig C., and Preston. 3,354,120.
Baer, Massimo. 3,300,545.
Baer, Massimo. 3,313,790.
Baer, Massimo, and Hankey. 3,312,756.
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Baizer, Manuel M. 3,312,713.
Baker, Joseph W., and Chupp. 3,357,816.
Baker, Joseph W., Chupp, and Newallis. 3,351,682.
Baldridge, Donald B. 3,317,906.
Ballentine, James B., Huffman, and Pickett. 3,304,289.
Barker, George E. 3,311,834.
Barker, George E. 3,331,245.
Barker, George E., and Lightner. 3,331,248.
Baur, Gerd R., Henderson, and Misenheimer. 3,329,644.
Beaulieu, Raymond D. 3,297,638.
Beaulieu, Raymond D., O'Connell, and Magarian. 3,328,-207.
Beckham, Rodney D., and Middlebrooks. 3,356,755.
Beer, Ludwig A. 3,328,371.
Beer, Ludwig A., and Hardy. 3,350,333.
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Binder, Richard J. 3,321,299.
Binning, Robert C. 3,350,415.
Binning, Robert C., Bowe, and Null. 3,350,421.
Binning, Robert C., and Crum. 3,337,425.
Binning, Robert C., and Crum. 3,337,425.
Binning, Robert C., and Crum. 3,338,800.
Binning, Robert C., and Null. 3,350,417.
Binning, Robert C., Null, and Reid. 3,337,620.
Binning, Robert C., Null, and Reid. 3,350,416.
Birum, Gail H. 3,317,510.
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Birum, Gail H., Clampitt, and Anderson. 3,332,893.
Birum, Gail H., Schwendeman, and Anderson. 3,344,112.
Black, William B. 3,329,754.
Blackburn, William A., and Apperson. 3,313,867.
Blance, Robert B., and Cohen. 3,317,485.
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Blyth, Randolph C. 3,329,638.
Board, William J., Jr., Wooten, and Whatley. 3,342,862.
Boon, George B. 3,313,599.
Boon, George B. 3,315,836.
Bowe, Leon E., Binning, and Null. 3,337,619.
Bowe, Leon E., Binning, and Null. 3,350,418.
Boyd, Thomas. 3,330,785.
Bray, John R. 3,348,063.
Bray, John R., Horne, and Taylor. 3,319,167.
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Brierley, Ronald H., Dulaney, and Davenport. 3,306,844.
Brignac, Edmond P. 3,300,449.
Brignac, Edmond P. 3,324,072.
Brignac, Edmond P., and Wright. 3,310,534.
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Brink, Joseph A., Jr., and Sugg. 3,352,778.
Broussalian, George L. 3,303,137.
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Brown, Gordon E. 3,300,361.
Brown, Gordon E., Cox, and Kennar. 3,351,612.
Buckely, Francis T., Finch, and Seidin. 3,346,526.
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Calfee, John D. 3,323,942.
Campbell, Charles R., and Johnson. 3,359,283.
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Campbell, John R. 3,321,529.
Campbell, John R., and Hatton. 3,311,665.
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Carlson, Emil H. 3,314,887.
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Chapman, Richard D., and Crovatt. 3,304,290.
Cheape, Dudley W., Jr. 3,346,932.
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Chupp, John P. 3,301,922.
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Crompton, Thomas E. 3,317,954.
Crovatt, Lawrence W., Jr. 3,296,215.
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Crutchfield, Marvin M., and Irani. 3,297,578.
Dahms, Ronald H., Hardy, and Popielski. 3,301,813.
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D'Amico, John J. 3,295,946.
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Danly, Donald E., and Whitesell. 3,329,712.
Darby, Joseph R., and Graham. 3,300,442.
Davis, George D., and Makin. 3,350,282.
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Day, Richard J. 3,359,205.
Delacretaz, Richard E., Stein, and Walter. 3,328,488.
Derby, Wallene R. 3,330,818.
Dill, Dale R. 3,297,424.
Dill, Dale R. 3,335,107.
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Dobo, Emerick J. 3,359,074.
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Elbert, Donald L., and Wright. 3,346,916.
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Fariss, Robert H. 3,337,618.
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Feierstein, Harold E., and Lewis. 3,329,616.
Fenn, Joe D. 3,300,153.
Fields, Joseph E. 3,329,658.
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Fitzgerald, Warren E. 3,318,987.
Fortner, Cecil P., and Pinsky. 3,317,339.
Franz, John E. 3,321,492.
Franz, Raymond A., and Downs. 3,333,013.
Franz, Raymond A., and Moore. 3,305,598.
Gaertner, Van R. 3,314,897.
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Gaertner, Van R. 3,345,252.
Gauthier, Roger A., Jr., and Snooks. 3,300,448.
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Geigel, Eugene W. 3,357,152.
Gluesenkamp, Earl W., Richard, and Wilshire. 3,328,380.
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Green, John M., and Horne. 3,343,086.
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Hahn, Frank J. 3,355,403.
Hamm, Philip C. 3,314,849.
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Handleman, Avrom R., and Langguth. 3,342,749.
Hardy, Edgar E., and Beer. 3,350,332.
Harman, Marion W., and D'Amico. 3,318,676.
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Harris, Alva F., and Mortimer. 3,297,669.
Harris, Darrel M. 3,329,527.
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Hedrick, Ross M., and Mottus. 3,320,335.
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Henderson, Courtland M., and Beaver. 3,343,373.
Henderson, William B., and Baur. 3,354,111.
Herber, John F. 3,320,313.
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Hills, David G. 3,323,668.
Hills, William H., McIntosh, and Roy. 3,299,485.
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Hirshfeld, Julian J. 3,343,980.
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Hirzy, John W. 3,336,362.
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Hodson, Phillip H., and Darlington. 3,334,021.
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Irani, Riyad R. 3,348,613.
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Irani, Riyad R., and Moedritzer. 3,344,077.
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Isacks, Albert J., Jr., and Lugg. 3,344,085.
Jackson, Robert C. 3,334,827.
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Johnson, Dale R. 3,296,418.
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Johnson, William K. 3,311,650.
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Keller, Leonard J. 3,306,501.
Kellert, Morton D. 3,320,203.
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Kern, Roland J. 3,298,972.
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Kim, Keun Y. 3,343,909.
King, Henry L. 3,304,288.
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Koons, Russell E. 3,342,614.
Kornicker, Walter A. 3,297,733.
Kornicker, Walter A. 3,318,932.
Kowalski, Xavier. 3,296,069.
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Lam, Tat C. 3,319,186.
Lambuth, Alan L. 3,324,103.
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Langguth, Robert P. 3,338,829.
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Larrigan, Harry J., Browne, and Adams. 3,295,365.
Lavin, Edward, Markhart, and Kass. 3,347,808.
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Lee, Emerson H. 3,306,942.
Lee, Yoon C. 3,331,810.
Lee, Yoon C. 3,356,644.
Lee, Yoon C., and Nemphos. 3,316,208.
Lee, Yoon C., and Nemphos. 3,331,812.
Leland, Roger S. 3,344,084.
Lilyquist, Marvin R. 3,318,728.
Lloyd, Robert D. 3,316,027.
Lloyd, Robert D. 3,316,028.
Lloyd, Robert D. 3,316,029.
Locke, Frederic J. 3,303,107.
Locke, Frederic J. 3,359,326.
Lutz, Frank B. 3,334,363.
Lyons, John W. 3,325,289.
Lyons, John W., and Irani. 3,346,488.
MacDonald, Augus N., and Rabold. 3,317,453.
Maier, Ludwig. 3,302,251.
Maier, Ludwig. 3,321,557.
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Maier, Ludwig. 3,342,871.
Maier, Ludwig. 3,359,266.
Makin, Earle C., Jr., and Davis. 3,356,594.
Makin, Earle C., Jr., and Resenberger. 3,350,283.
Marco, Gino J., and Speziale. 3,311,642.
Mark, Victor. 3,298,815.
Mark, Victor. 3,305,563.
Mark, Victor. 3,312,613.
Mark, Victor. 3,324,147.
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Mark, Victor. 3,328,472.
Mark, Victor. 3,356,688.
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Marotta, Ralph. 3,342,748.
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Martin, Eugie A. 3,299,472.
Martins, Joseph G. 3,346,530.
Masson, James C. 3,300,453.
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Matzner, Edwin A. 3,321,497.
Maurer, Richard P., and Aykanian. 3,324,211.
Mazzolini, Corrado, and Lo Monaco. 3,310,535.
McIntosh, Euell K. 3,295,181.
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McMinn, Talmage D., Jr. 3,303,230.
Metcalf, Joe S., Shaver, and Shen. 3,337,468.
Miller, Lee A. 3,298,909.
Miller, Robert E. 3,344,107.
Millward, Brian B. 3,341,494.
Milne, John S. 3,355,062.
Mitchell, Robert S. 3,356,775.
Moedritzer, Kurt. 3,309,408.
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Mohs, Thomas J. 3,352,479.
Morgan, Herbert S., Jr., and Robinson. 3,329,758.
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Mortimer, George A. 3,306,888.
Mottern, John W., and Van Voorhis. 3,323,165.
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Mottus, Edward H. 3,311,559.
Mottus, Edward H. 3,311,597.
Mottus, Edward H., and Fields. 3,321,405.
Mozlek, John. 3,306,445.
Mylo, John. 3,295,180.
Mylo, John. 3,328,982.
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Nagel, Alfred W. 3,302,930.
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Newallis, Peter E., Chupp, and Baker. 3,321,295.
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Novak, Darwin A., Jr. 3,325,413.
Null, Harold R., Bowe, and Binning. 3,335,179.
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Morawe, Hans-Georg, H. Rueckert, and F. Furrer, to Joh. A. Benckiser G.m.b.H. Process of selectively recovering metal ions from solutions containing same. 3,305,306, 2–21–67, Cl. 23—125.

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Morin, Louis H., to Coats & Clark Inc. Traveler with wear resistant insert. 3,320,736, 5–23–67, Cl. 57—125.
Morin, Louis H., 25% to M. F. McGill, and 25% to J. R Hanna. Die structure for producing weedless fish hooks. 3,328,846, 7–4–67, Cl. 18—36.
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Moritz, Karsten H., and L. J. DeLany, to Esso Research and Engineering Co. Preventing color degration in the hydrogenation of hydrocarbon resins. 3,356,660, 12–5–67, Cl. 260—82.

Moriyama, Kazuhiro, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Apparatus for casting that automatically controls the correlation between time and air-pressure. 3,302,253, 2–7–67, Cl. 22—69.

Moriyama, Kazuhiro, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Apparatus that automatically controls the correlation between time and air-pressure. 3,302,254, 2–7–67, Cl. 22—69.

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Morrell, Don P. Pressure compensating means for pump. 3,301,192, 1–31–67, Cl. 103—120.

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Morrell, James N. Automatic regrinding valve system. 3,311,121, 3–28–67, Cl. 137—15.

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Morrill, Vaughan, Jr. Apparatus and method for making accurate micromeasurements and for dispensing accurately measured small quantities of liquids. 3,317,083, 5–2–67, Cl. 222—1.

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Morris, James A., Jr., to The Boeing Co. Switching device. 3,319,077, 5–9–67, Cl. 307—88.5.

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Morris, Lowell H. 3,347,575.

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Morris, Robert W., to Taylor Instrument Companies. Ribbon cable and switch improvements in coupling means. 3,327,077, 6–20–67, Cl. 200—51.

Morris, Ronald G., to Beaver-Advance Corp. Traction lift for scaffolding towers. 3,298,462, 1–17–67, Cl. 187—2.

Morris, Shirley. Garment of pants type with non-sagging rear thigh portions. 3,323,140, 6–6–67, Cl. 2—227.

Morris, Theodore, Jr. Clinical Thermometer device. 3,308,940, 3–14–67, Cl. 206—55.

Morris, Wilford V., to Hughes Tool Co. Reamer for jet piercer. 3,344,870, 10–3–67, Cl. 175—15.

Morris, William J., and R. C. Simmons, to Philco Ford Corp. Cabinet structure. 3,352,613, 11–14–67, Cl. 312—8.

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Morrison, Alexander R. Tree stand. 3,332,649, 7–25–67, Cl. 248—47.

Morrison, Ben. Upholstery construction. 3,310,819, 3–28–67, Cl. 5—353.

Morrison, Charles S., H. H. Denison, and K. R. Thomas, to Deere & Co. Crop harvester. 3,315,449, 4–25–67, Cl. 56—21.

Morrison, Dewey M. Single trigger mechanism for a double-barreled shotgun. 3,344,546, 10–3–67, Cl. 42—42.

Morrison, Donald G., to Fairbanks, Morse & Co. Force measuring system with electronic balancing and readout network. 3,324,962, 6–13–67, Cl. 177—210.

Morrison, Edward. Reconstructed internal combustion engine cylinder heads and method of making same. 3,351,043, 11–7–67, Cl. 123—32.

Morrison, Emmett G. Air cooling means for disc brakes. 3,318,424, 5–9–67, Cl. 188—264.

Morrison, Elbert F., and R. D. Joy, to Burlington Industries, Inc. Process and apparatus for making a novelty yarn. 3,350,867, 11–7–67, Cl. 57—12.

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Shavel, John, Jr., and Morrison. 3,326,923.
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Morrison, Hugh S. Adjustable concrete floor construction apparatus. 3,314,638, 4–18–67, Cl. 249—29.

Morrison, James P. Necktie rack. 3,349,922, 10–31–67, Cl. 211—113.

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Bate, Geoffrey, Speliotis, and Morrison. 3,342,633.

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Morrison, Willard L. 3,302,425.

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Feather, Landis E., and Morrison. 3,351,693.

Morrison, Robert F., Jr., to United States of America, Army. Waveguide antenna with non-resonant slots. 3,308,467, 3–7–67, Cl. 343—705.

Morrison, Robert H., to Baker Perkins Ltd. Rotary article dispenser with register and predetermined count control. 3,334,784, 8–8–67, Cl. 221—7.

Morrison, Ronald F., to R. F. Morrison & Co. Ltd. Fittings for electrical fluorescent-tube lamps. 3,334,568, 8–8–67, Cl. 98—40.

Morrison, Thomas W., to SKF Industries, Inc. Rolling bearing assemblies. 3,343,895, 9–26–67, Cl. 308—196.

Morrison, Thomas W., and H. O. Walp, to SKF Industries Inc. Process for treating primarily metallic materials. 3,341,321, 9–12–67, Cl. 75—12.

Morrison, Wayne K. Self-loading boat carrier. 3,343,696, 9-26-67, Cl. 214—450.

Morrison, Willard L., deceased, by L. M. Morrison, legatee. Method and apparatus for handling and disposing of frozen food. 3,302,420, 2-7-67, Cl. 62—62.

Morrison, Willard L. to Elmwood Products, Inc. Method and apparatus for freezing perishable material. 3,302,423, 2-7-67, Cl. 62—266.

Morrison, Willard L., deceased, by L. M. Morrison, personal representative. Frozen food container. 3,302,425, 2-7-67, Cl. 62—373.

Morrison, Willard L., to Elmwood Liquid Products, Inc. Insulated shipper container. 3,302,815, 2-7-67, Cl. 220—9.

Morrison, Willard L., to Union Stock Yard and Transit Co. of Chicago. Insulated enclosure. 3,351,223, 11-7-67, Cl. 220—12.

Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Foamed plastic insulation. 3,357,585, 12-12-67, Cl. 220—9.

Morrison, William M. M., to Turner Mfg. Co., Ltd. Gear shift mechanisms. 3,298,483, 1-17-67, Cl. 192—3.5.

Morriss, Herbert A., Jr., to United States of America, Air Force. Protective optical system with offset light path and fusible optical mirror. 3,301,624, 1-31-67, Cl. 350—52.

Morrissey, Joseph W., to Corning Glass Works. Method of decorating semicrystalline bodies. 3,313,644, 4-11-67, Cl. 117—37.

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Morritt, Kenneth P., to K. P. Morritt Ltd. Rotating spool fishing reel with air brake. 3,317,159, 5-2-67, Cl. 242—84.52.

Morrow, Alfred C., and H. S. Barr, Jr., to Pneumafil Corp. Doctor blade clearer. 3,340,577, 9-12-67, Cl. 19—98.

Morrow, Christopher M. Radar system. 3,307,182, 2-28-67, Cl. 343—14.

Morrow, Edward L., to Olin Mathieson Chemical Corp. Ventilated rib sight. 3,325,937, 6-20-67, Cl. 42—1.

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Thomas, Glen H., and Morrow. 3,340,476.
Thomas, Glen H., and Morrow. 3,349,257.

Morrow Scott I., to Thiokol Chemical Corp. Process for preparation of peroxide products. 3,344,194, 9-26-67, Cl. 260—610.

Morrow, Warren P., to United States of America, Army. Magnetically operated electrical switch. 3,344,379, 9-26-67, Cl. 335—206.

Morsax Co.: *See*—
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Morse, Albert R., to Injection Molders Supply Co., Inc. Injection machine positive stop. 3,317,962, 5-9-67, Cl. 18—30.

Morse, Arthur C., Jr., to Electronic Development Mfg. Corp. Automatic starter for prime movers. 3,308,305, 3-7-67, Cl. 290—38.

Morse, Arthur Osher, to American Machine & Foundry Co. Automatic positioning apparatus. 3,324,281, 6-6-67, Cl. 235—61.6.

Morse, Carl W. Lift device for counters and the like. 3,327,996, 6-27-67, Cl. 254—2.

Morse Chain Co.: *See*—
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Morse, Charles P., to National Aeronautics and Space Administration under provision of 42 U.S.C. 2457 (d). Method and device for cooling. 3,298,175, 1-17-67, Cl. 60—26.7.

Morse Controls Inc.: *See*—
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Moore, Bruce H. 3,349,637.
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Morse, Edward A., to Johnson & Johnson. Method of making non-planar fibrous articles. 3,306,795, 2-28-67, Cl. 156—85.

Morse, Edward A., to Johnson & Johnson. Sanitary napkin with knitted wrapper. 3,339,549, 9-5-67, Cl. 128—290.

Morse, George W.: *See*—
Link, Robert O., and Morse. 3,352,012.

Morse, George W. Hay wafer and method and apparatus for manufacture. 3,352,229, 11-14-67, Cl. 100—38.

Morse Instruments Inc.: *See*—
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Morse, James A., to The Adams Mfg. Co. Flame quenching air shutter for gas burners. 3,333,620, 8-1-67, Cl. 158—118.

Morse, Joe V.: *See*—
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Morse, John E.: *See*—
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Morse, John F. Method of making push-pull cable casings. 3,320,665, 5-23-67, Cl. 29—460.

Morse, John F., to Morse Controls Inc. Transmission control lever mount. 3,350,957, 11-7-67, Cl. 74—473.

Morse, Leighton L. High speed recorder with centrifugal stylus feed. 3,328,804, 6-27-67, Cl. 346—139.

Morse, Loyal P. Tool. 3,305,921, 2-28-67, Cl. 29—229.

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Land, Edwin H., Morse, and Yankowski. 3,345,166.

Morse, Meroe M., to Polaroid Corp. Monobath containing cysteine-nitrogenous base combination. 3,343,958, 9-26-67, Cl. 96—29.

Morse, Milton. Bicycle pedal having sealed lubrication means. 3,320,826, 5-23-67, Cl. 74—594.4.

Morse, Milton. Rolling link bicycle chain. 3,332,297, 7-25-67, Cl. 74—219.

Morse, Milton. Self aligning piston for transfer molding means. 3,344,478, 10-3-67, Cl. 18—42.

Morse, Milton. Rolling link bicycle chain. 3,344,677, 10-3-67, Cl. 74—219.

Morse, Milton. Geothermal means for desalinating sea water. 3,347,753, 10-17-67, Cl. 202—185.

Morse, Paul M., 33⅓ to J. E. Morse. Divergent cam expansible chamber device. 3,332,613, 7-25-67, Cl. 230—137.

Morse, Peter W. Self-propelled aerial platform. 3,319,739, 5-16-67, Cl. 182—2.

Morse, Richard A., to Gulf Research & Development Co. Upgrading oil by in situ combustion. 3,332,489, 7-25-67, Cl. 166—11.

Morse, Richard A., to Pan American Petroleum Corp. Recovery of oil from reservoirs. 3,354,953, 11-28-67, Cl. 166—9.

Morse, Robert J., and H. M. Valentine, to Bendix-Westinghouse Automotive Air Brake Co. Compressor control valve. 3,329,154, 7-4-67, Cl. 137—116.

Morse, Roland B. Endless track vehicle. 3,338,325. 8-29-67, Cl. 180—6.7.

Morse, Stanley A., to Arlo Mfg. Corp. Means for restricting and releasing the outlet of a baler. 3,350,999, 11-7-67, Cl. 100—43.

Morse, Thomas M., to Western Electric Co., Inc. Passive earth satellite reflector. 3,324,470, 6-6-67, Cl. 343—18.

Morsink, Robert C.: *See*—
Stephens, Giles D., and Morsink. 3,316,046.
Stephens, Giles D, and Morsink. 3,341,102.

Morss, Richard J.: *See*—
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Mortara, Holy S., to Rock-Ola Mfg. Corp. Pump means. 3,354,830, 11-28-67, Cl. 103—38.

Mortensen, La Vaughn L. Prosthetic leg with a hydraulic knee control. 3,316,558, 5-2-67, Cl. 3—1.2.

Mortensen, Louis A. Plastic fastening member for snap fasteners. 3,309,748, 3-21-67, Cl. 24—216.

Mortensen, Richard C.: *See*—
Oltean, George, Mortensen, and Jessen. 3,298,228.

Mortensen, Royal C.: *See*—
Emery, Clare H., Jr., and Mortensen. 3,309,457.

Mortenson, Leonard E., to E. I. du Pont de Nemours and Co. Bacterial ferredoxin. 3,344,130, 9-26-67, Cl. 260—115.

Mortimer, Edmund W., to Garrard Engineering Ltd. Disc gramophones employing a pivoted pickup arm. 3,318,603, 5-9-67, Cl. 274—23.

Mortimer, Edmund W., to Garrard Engineering Ltd. Automatic trip mechanism for gramophones. 3,359,006, 12-19-67, Cl. 274—1.11.

Mortimer, Frank R., to Dunlop Rubber Co., Ltd. Locking and sealing devices. 3,296,742, 1-10-67, Cl. 49—319.

Mortimer, George A.: *See*—
Harris, Alva F., and Mortimer. 3,297,669.

Mortimer, George A., to Monsanto Co. Azo compounds. 3,306,888, 2-28-67, Cl. 260—94.9.

Mortimer, George H.: *See*—
Lake, Louise, and Mortimer. 3,358,527.

Mortley, Wilfrid S., to The Marconi Co. Ltd. Frequency-dispersive electro-mechanical delay cell utilizing grating. 3,300,739, 1-24-67, Cl. 333—30.

Morton, David C., to Bethlehem Steel Corp. Reversing motor control including load sensing to determine optimum reversal point. 3,296,513, 1-3-67, Cl. 318—265.

Morton, David F., to The Black Clawson Co. Paper machinery. 3,342,425, 9-19-67, Cl. 241—46.

Morton, Evans T., to Aqua-Chem, Inc. Heat-pump compressor type distillation apparatus for purifying water. 3,312,600, 4-4-67, Cl. 202—160.

Morton, Geoffrey W., to Her Majesty the Queen in right of Canada, as represented by Canadian Patents and Development Ltd. Rotatable joint for a waveguide. 3,309,114, 3-14-67, Cl. 285—11.

Morton, George A., and G. L. Krieger, to United States of America, Army. Pick up tube with infrared sensitive thermionic cathode with cooling means spaced from the thermionic cathode. 3,333,133, 7-25-67, Cl. 313—65.

Morton, Harold, to Oldham & Son Ltd. Miners' cap lamps. 3,334,223, 8-1-67, Cl. 240—11.3.

Morton International, Inc.: *See*—
Covalt, Robert B., Hoff, and Van Der Zee. 3,333,545.
Grady, James M. 3,298,416.
Mickelson, Grant A., and Baseggio. 3,360,343.
O'Connor, Donal J. 3,330,442.
Turner, Robert J., and Lutes. 3,296,167.
Woodruff, Douglas. 3,340,217.
Zweig, Samuel. 3,340,091.

Morton, James R. and W. L. Clothes hamper. 3,349,936, 10-31-67, Cl. 217—3.

Morton, John C. Stair climbing device. 3,330,370, 7-11-67, Cl. 180—9.22.

Morton, John P.: *See*—
Bauer, Peter, and Morton. 3,318,523.

Morton Mfg. Co.: *See*—
Basch, Sherwood J. 3,317,985.
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Morton, Raymond C. Miss-distance indicator. 3,303,767, 2-14-67, Cl. 95—12.5.

Morton, Robert D.: *See*—
Grohoski, Edward G., and Morton. 3,314,261.

Morton, Robert D., to The Hartford Special Machinery Co. Thread rolling machine. 3,308,642, 3-14-67, Cl. 72—88.

Morton Salt Co.: *See*—
Hurst, Alan R. 3,318,748.
Miller, Howard C. 3,343,919.

Morton, Wayne L.: *See*—
Morton, James R. and W. L. 3,349,936.

Morton, William A., and A. S. Sobek, to Sunbeam Corp. Method and apparatus for making steel. 3,342,470, 9-19-67, Cl. 266—9.

Morton, William D., Jr., to Sierra Engineering Co. Retaining means for face masks. 3,315,673, 4-25-67, Cl. 128—141.

Mortsell, Tage E., deceased (by G. Ahlstrom, administrator), to Sala Maskinfabriks Aktiebolag. Drum type magnetic separator. 3,327,852, 6-27-67, Cl. 209—219.

Morway, Arnold J., to Esso Research and Engineering Co. Lubricants containing mixed metal salts of fatty acid and aromatic polybasic acid. 3,298,953, 1-17-67, Cl. 252—41.

Morway, Arnold J., and A. J. Bodner, to Esso Research and Engineering Co. Calcium mixed salt lubricating greases containing polycarboxylic acid. 3,314,886, 4-18-67, Cl. 252—32.7.

Morway, Arnold J., and R. Kassinger, to Esso Research and Engineering Co. Calcium acetate fluid lubricants. 3,328,299, 6-27-67, Cl. 252—40.7.

Morway, Arnold J., and A. J. Bodner, to Esso Research and Engineering Co. Method of forming finely divided inorganic acid salts. 3,340,206, 9-5-67, Cl. 252—389.

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Winkler, Morris B. 3,302,917.
Winkler, Morris B. 3,314,435.

Mory, Rudolf: *See*—
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Mos, Bob J., to Consolidated Electrodynamics Corp. High resolution digital magnetic head with flux focusing shield. 3,325,795, 6-13-67, Cl. 340—174.1.

Mos, Gerardus H. M.: *See*—
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Cleverly, Robert B. 3,322,591.
Mays, Howard D. 3,306,475.

Mosebach, Carl H. Pneumatic tire construction. 3,329,193, 7-4-67, Cl. 152—340.

Mosbach, Karl T. R. Chromatographic separation of substances of different molecular weight. 3,298,925, 1-17-67, Cl. 195—66.

Mosby, William L., to American Cyanamid Co. 1,4-naphthoquinones. 3,325,512, 6-13-67, Cl. 260—326.

Mosby, William L., H. C. Gilliham, and A. E. Sherr, to American Cyanamid Co. Flame retardant thermoplastic resins containing dihalo-phosphoranylideneamino benzoquinones. 3,322,860, 5-30-67, Cl. 260—893.

Moschetta, Benjamin: *See*—
Moschetta, Joseph and B. 3,356,812.

Moschetta, Joseph and B. Mercury type electrical switch. 3,356,812, 12-5-67, Cl. 200—152.

Moschetti, Donald J., M. G. Smith, and R. E. Ripplinger, to General Electric Co. Rotary endorser under control of document sensing means. 3,335,661, 8-15-67, Cl. 101—235.

Moschopedis, Spiros E., to Canadian Patents and Development Ltd., National Research Council. Sulfomethylation of humic acids, lignites, and coals and products thereof. 8,352,902, 11-14-67, Cl. 260—507.

Moscowskaja Konditerskaja Fabrika Krasny Oktjabr: *See*—
Karpenko, Alexei K., Bondareva, Malinin, Dmolsnisky, Koroleva, Poljakov, and Saveljev. 3,356,045.

Moscowsky Institute Stali i Splarov: *See*—
Purshinsky, Miroslav S. 3,335,250.

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Moscowsky Zavod Malolitrazhnykh Aytomobilei: *See*—
Poljak, David G., Egorov, and Shereshev. 3,297,892.

Moseley Associates, Inc.: *See*—
Ham, Howard M., Jr. 3,317,838.

Moseley, Francis L. Mill table feed mechanism. 3,339,427, 9-5-67, Cl. 74—472.

Moseley, John B., to General Time Corp. Drive and stop control for a driven machine. 3,352,396, 11-14-67, Cl. 192—142.

Moseley, Robert B., and M. N. Papadopoulos, to Shell Oil Co. Hydration of olefins to alcohols and ethers using halogenated alkanol solvents. 3,299,150, 1-17-67, Cl. 260—614.

Moseley, Robin C.: *See*—
Lockwood, George S., Jr., Arciprete, Greene, Moseley, and Rothery. 3,321,584.

Moseley, Walter W., Jr., and R. G. Parrish, to E. I. du Pont de Nemours and Co. Linear synthetic polymeric fiber. 3,318,849, 5-9-67, Cl. 260—77.5.

Moseley, Walter W., Jr., and R. G. Parrish, to E. I. du Pont de Nemours and Co. Highly tear-resistant polyolefin biaxially oriented sheet. 3,328,227, 6-27-67, Cl. 161—112.

Moseley, William K., P. R. Elliker, and W. E. Sandine. Method for preparing a creaming composition for diary products and the resulting product. 3,323,921, 6-6-67, Cl. 99—59.

Moseman, Rodney E.: *See*—
Olasz, Joseph S., and Moseman. 3,315,364.

Moser, Alois: *See*—
Gorge, Werner, and Moser. 3,315,980.

Moser, Hans: *See*—
Elsner, Horst, Moser, and Konermann. 3,341,508.

Moser, Paul: *See*—
Oechslin, Konrad, and Moser. 3,304,054.

Moses, Nelson K., to Railroad Rubber Products, Inc. Rubber rail seat for track structure and the like. 3,295,760, 1-3-67, Cl. 238—283.

Moses, Nelson K., and R. A. McClung, to Railroad Permanent Way Products Corp. Beams for railroad track structure. 3,300,140, 1-24-67, Cl. 238—25.

Moses, Ronald E., and P. Lucas, to The Gillette Co. Self-heating shaving preparation composition. 3,341,418, 9-12-67, Cl. 167—85.

Moses, William, to S. B. Penick & Co. Fermentation media for industrial fermentations comprising amylopectin as essentially the sole carbohydrate source. 3,352,761, 11-14-67, Cl. 195—80.

Moseson, Roger M.: *See*—
Laegreid, Nils, and Moseson. 3,296,115.
Laegreid, Nils, and Moseson. 3,324,019.
Laegreid, Nils, and Moseson. 3,344,054.
Laegreid, Nils, and Moseson. 3,347,772.

Moseson, Roger M., to Consolidated Vacuum Corp. Triode sputtering apparatus for depositing uniform coatings. 3,305,473, 2-21-67, Cl. 204—298.

Mosetich, John: *See*—
Baum, William H., and Mosetich. 3,342,659.

Mosetich, Ronald J.: *See*—
Baum, William H., and Mosetich. 3,315,436.

Moshe, Hadari. Hydraulically operated tools. 3,296,796, 1-10-67, Cl. 60—52.

Mosher, Charles, to Varian Associates. Semiconductor microwave oscillator. 3,336,535, 8-15-67, Cl. 331—107.

Mosher, Owen D.: *See*—
Violette, Glenn M., and Mosher. 3,356,556.

Mosher, Robert A., to Standard Oil Co. Gelatin desiccant tablets. 3,298,958, 1-17-67, Cl. 252—194.

Mosher, Walter N. Torque arm connection. 3,317,226, 5-2-67, Cl. 287—93.

Moshier, Ross W., R. E. Sievers, and L. B. Spendlove. Vaporplating metals from fluorocarbon keto metal compounds. 3,356,527, 12-5-67, Cl. 117—107.2.

Moshy, Raymond J., F. J. Germino, and H. W. P. Panzer, to American Machine and Foundry Co. Method for making amylose derivatives. 3,326,893, 6-20-67, Cl. 260—233.3.

Mosier, Charles F., Jr.: *See*—
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Mosier, Jacques, to Ford Motor Co. Voltage regulator. 3,350,626, 10-31-67, Cl. 322—73.

Mosier, Kenneth C. Check valve having throttling passage. 3,298,393, 1-17-67, Cl. 137—513.3.

Mosier, Kenneth C. Fluid valves. 3,313,317, 4-11-67, Cl. 137—625.46.

Mosier, Leo D. Anti-backlash attachment for fishing reels. 3,319,903, 5-16-67, Cl. 242—84.52.

Moskovitz, Irving, to Minnesota Mining and Mfg. Co. Drop-out compensator for video signals. 3,328,521, 6-27-67, Cl. 178—6.6.

Moskovitz, Milton A. Self-locking and adjustable screw device. 3,297,049, 1-10-67, Cl. 137—540.

Moskovitz, Milton A. Ball joint. 3,337,246, 8-22-67, Cl. 287—90.

Moskovitz, Milton A. Ball joints. 3,337,247, 8-22-67, Cl. 287—90.

Moskovskaja Selskokhozjaistvennaja Akademia "K.A. Timirjazev": *See*—
Silkin, Alexandr M. 3,329,006.

Moskovsky Automobilny Zavod "I.A. Likhachev": *See*—
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Moskowitz, Isadore, to Bethlehem Steel Corp. Shutters for pinhole detectors. 3,325,648, 6-13-67, Cl. 250—219.

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Lasley, Robert A., Handel, and Eisenstadt. 3,360,702.
Lingal, Harry J. 3,296,952.
Lingal, Harry J. 3,329,106.
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Paulus, James E. 3,339,849.
Todt, Gerhard H., and Tearne. 3,305,192.
Voss, Robert H. 3,301,554.

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Mosley, John C.: *See*—
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Moslo, Ernest P. Spring-pressed shutoff for injection nozzle. 3,295,169, 1–3–67, Cl. 18—30.

Moslo, Ernest P. Centering insert for golf ball molding. 3,344,-468, 10–3–67, Cl. 18—1.

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Mosow, William A., to National Lock Co. Method of forming self-locking threaded fastening member. 3,339,389, 9–5–67, Cl. 72—88.

Mosquera, Hugo O., to International Harvester Co. Lockable instrument panel. 3,302,743, 2–7–67, Cl. 180—90.

Moss, Anna M., to T. V. Moss. Mop and method of making the same. 3,336,620, 8–22–67, Cl. 15—229.

Moss, Arthur W., to H. Frost & Co., Ltd. Electrical illumination devices. 3,321,859, 5–30–67, Cl. 40—106.54.

Moss, Charles A.: *See*—
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Moss, Charles W. Portable shelter. 3,333,594, 8–1–67, Cl. 135—1.

Moss, Clifford E. Orthodontic device. 3,315,359, 4-25-67, Cl. 32—14.

Moss, David H. Body worn urinal with detachable receptacle. 3,306,296, 2–28–67, Cl. 128—295.

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Moss, Donald H. Retractable diving board. 3,350,094, 10–31–67, Cl. 272—66.

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Moss, Hayward B. Accelerator pedal holding tool. 3,329,041, 7–4–67, Cl. 74—532.

Moss, Hoyle G., and E. W. Walters, to Botany Industries, Inc. Bristle biasing apparatus for saw toothed cylinder brushes. 3,302,234, 2–7–67, Cl. 15—256.51.

Moss, Jack W., to Wichita Clutch Co. Thermostat safety control for air actuated clutches. 3,351,167, 11–7–67, Cl. 192—56.

Moss, Norman, to Plessey U.K. Ltd. Constant-speed drives. 3,298,251, 1–17–67, Cl. 74—687.

Moss, Norman, to Plessey-UK Ltd. Mass-flow determining devices. 3,353,406, 11–21–67, Cl. 73—194.

Moss, Norman, and P. Stanwell, to Plessey U.K., Ltd. Composite mechanical drives. 3,298,250, 1–17–67, Cl. 74—675.

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Moss, Theron V. Mop construction and method of making same. 3,324,497, 6–13–67, Cl. 15—229.

Moss, Thomas J. Golf club including magnetic loft changing attachment. 3,310,309, 3–21–67, Cl. 273—162.

Moss, William A., and R. E. Griffin, 50% to said Moss, 25% to J. D. Parkerson, and 25% to J. A. Roy. Muffler with frusto-conical baffle members spaced along central tube. 3,354,986, 11–28–67, Cl. 181—57.

Moss, William E. J., to Northern Electric Co. Ltd. Temperature controlling outdoor enclosure for communications apparatus. 3,330,333, 7–11–67, Cl. 165—45.

Mossberg, Carl W., to Waukesha Cutting Tools, Inc. Liquid cooled spade drills. 3,333,489, 8–1–67, Cl. 77—68.

Mosse, Richard W. E., to The Metal Box Co. Ltd. Sealing of cartons. 3,347,014, 10–17–67, Cl. 53—141.

Mosses, Adrian J., to Honeywell Inc. Transformerless modulating and filtering apparatus. 3,329,910, 7–4–67, Cl. 332—31.

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Mostardo, August F., Jr., and F. W. Cross, to Industrial Research Products, Inc. Electromechanical transducers. 3,313,892, 4–11–67, Cl. 179—115.

Mosterd, Jacob H. Apparatus for causing articles separately supplied by grip means to be deposited in a row one after another. 3,308,928, 3–14–67, Cl. 198—179.

Mote, Robert G. Building toy. 3,303,604, 2–14–67, Cl. 46—25.

Mothersbaugh, Robert B.: *See*—
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Moto, Tatsuya, K. Aotani, and T. Matsubara, to Chisso Corp. Two-step process for the polymerization of aldehydes. 3,341,-496, 9–12–67, Cl. 260—67.

Motomatsu, Hayao: *See*—
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Caprio, Gerald L. 3,349,173.
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Mullen, Clarence T., Jr. Skimmer cavity casting apparatus with means for holding plumbing conduit. 3,313,515, 4–11–67, Cl. 249—145.

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Munari, Giovanni B. Fastening for ski shoes having steps adjusting means for a resilient link means. 3,354,514, 11–28–67, Cl. 24—70.

Munari, Giovanni B. Rubber outsole for shoes. 3,354,562, 11–28–67, Cl. 36—2.5.

Munch, Walter, Jr., to D. H. Baldwin Co. Organ with reed resonators. 3,327,046, 6–20–67, Cl. 84—1.23.

Munch, Walter, Jr., and R. C. Scherer, to D. H. Baldwin Co. Wave shaping system for electrical musical instruments. 3,321,567, 5–23–67, Cl. 84—1.13.

Munch, Walter, Jr., and R. C. Scherer, to D. H. Baldwin Co. Keying systems for electrical musical instruments for producing steady-state or percussive type tones either separately or concurrently. 3,333,041, 7–25–67, Cl. 84—1.11

Munch, Walter, Jr., and A. W. Scheide, to D. H. Baldwin Co. Sampling tone generator system for electronic organs. 3,355,539, 11–28–67, Cl. 84—1.23.

Munchner Motorsubehor G.m.b.H.: *See*—
Kunzler, Werner, and Knauer. 3,306,211.

Munck, Sverre. Arrangement for the supply of electric power to a rail travelling carriage. 3,315,042, 4–18–67, Cl. 191—12.

Mund, Heinrich, to Bahr Metallwerk K.G., Firma. Device for coating chips with glue. 3,343,814, 9–26–67, Cl. 259—6.

Munday, Herbert L., Jr. Necktie marking device. 3,305,933, 2–28–67, Cl. 33—189.

Munday, James F.: *See*—
Ryan, John W., Stoles, and Munday. 3,342,171.

Munday, John S.: *See*—
Malchick, Sherwin P., James, and Munday. 3,325,347.
Rogers, Dilworth T., and Munday. 3,330,677.

Munday, John W., and J. E. Tomlinson, to British Aluminium Co., Ltd. Aluminium base clad with a magnesium silicon-aluminium alloy. 3,342,565, 9–19–67, Cl. 29—183.5.

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Anderson, Oscar B., and Mundell. 3,338,986.

Munder, Johannes: *See*—
Schlesinger, Heinz, and Munder. 3,307,949.

Munder, Johannes, and O. Sus, to Azoplate Corp. Photoconductor coatings for electrophotography. 3,316,087, 4–25–67, Cl. 96—1.

Munder, Johannes, and H. Ziegler, to Keuffel & Esser Co. Method for preparing heat-developable two-component diazotype reproduction sheet. 3,322,556, 5–30–67, Cl. 117—34.

Munder, Johannes, and H. Ziegler, to Keuffel & Esser Co. Heat-developable two-component diazotype reproduction material. 3,360,371, 12–26–67, Cl. 96—91.

Munderich, Paul, to Wibau Westdeutsche Industrie-und Strassenbau-Maschinen-Gesellschaft M.b.h. Measuring and dosing apparatus. 3,322,306, 5–30–67, Cl. 222—67.

Mundet Cork Corp.: *See*—
Jensen, Ole S. 3,353,666.

Mundinger, K. P. G.m.b.H.: *See*—
Farenkopf, Rudi. 3,331,020.

Mundon, Jerry L.: *See*—
Perry, Elijah R., Mundon, and Frey. 3,350,520.

Mundorff, Rewe P., and De L. A. Berry. Self-affixing fishing line float. 3,353,294, 11–21–67, Cl. 43—44.9.

Mundschenk, Glenn R., to General Electric Co. Dial pointer assembly. 3,298,350, 1–17–67, Cl. 116—124.1.

Mundschenk, Glenn R., and W. B. Scott, Jr., to General Electric Co. Terminal mounting device. 3,355,702, 11–28–67, Cl. 339—126.

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Tanida, Hiroshi, and Muneyuki. 3,336,331.

Munford, Marvin S., to Ball Bros. Co. Inc. Curved metal plates and method and apparatus for making same. 3,297,-498, 1–10–67, Cl. 148—11.5.

Mungard, Hans, to Danfoss AS. Control apparatus for burner systems. 3,327,193, 6–20–67, Cl. 318—221.

Mungard, Hans, to Danfoss A/S. Gas discharge tube having a paschen value less than the paschen value of gas and air. 3,333,102, 7–25–67, Cl. 250—83.6.

Munger, Donald W., to Automation Industries, Inc. Ultrasonic inspection. 3,323,353, 6–6–67, Cl. 73—67.8.

Munger, Fay E.: *See*—
Bennett, John E., McMahon, and Munger. 3,317,022.

Munger, Fay E., and J. L. McCloskey, to Jeffrey Galion Mfg. Co. Pan conveyor. 3,297,146, 1–10–67, Cl. 198—204.

Munier, Ronald A., and F. J. McGowan, to Worthington Corp. Locking assembly having means to prevent axial and torsional movement. 3,326,580, 6–20–67, Cl. 285—27.

Munier de Montrichard, Charles J. M. M., and J. G. Locatelli, to Societe Industrielle des Nouvelles Techniques Radioelectriques et de l'Electronique Francaise. Circuit arrangement for controlling very rapid deflections of an electron beam in a vacuum tube. 3,337,767, 8–22–67, Cl. 315—26.

Munk, Edmund: *See*—
Haas, Herbert, Munk, and Weinberg. 3,354,248.

Munk, Edmund, to Furnier- und Aperrholzwerk, J. F. Werz, Jr., KG. Compound door. 3,299,595, 1–24–67, Cl. 52—309.

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Cypra, Arne, Haentzschel, Munk, and Winter. 3,300,-695.

Munn, George E., to E. I. du Pont de Nemours and Co. Cellular polylactam article containing fibers. 3,332,895, 7–25–67, Cl. 260—2.5.

Munn, John E., to Jas. H. Matthews & Co. Rotary drum printer and inking apparatus therefor. 3,308,754, 3–14–67, Cl. 101—348.

Munn, John E. Mine roof support and method of providing same. 3,349,567, 10–31–67, Cl. 61—45.

Munns, George W., Jr., to Mobil Oil Corp. Processes for selective demethylation and for preparation of catalysts for use therein. 3,314,895, 4–18–67, Cl. 252—455.

Munro, Geoffrey H. J., to AMP Inc. Connector housing. 3,341,-745, 9–12–67, Cl. 317—116.

Munro, Howard E., to Eastman Kodak Co. Stabilized photographic prehardener compositions. 3,345,173, 10–3–67, Cl. 96—50.

Munro, William, to United Kingdom Atomic Energy Authority. Method of fabricating mixed ceramic compacts. 3,344,208, 9–26–67, Cl. 264—.5.

Munroe, Richard W.: *See*—
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Munroe, Robert A., to International Business Machines Corp. Surface treatment for magnesium-lithium alloys. 3,345,276, 10–3–67, Cl. 204—32.

Munroe, Ronald G., to Eagle Electric Mfg. Co., Inc. Electrical contact with screw terminal and pressure-lock terminal. 3,325,768, 6–13–67, Cl. 339—95.

Munsch, George F.: *See*—
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Munse, Robert A., to The Bishop and Babcock Corp. Plastic molding fastener. 3,304,686, 2–21–67, Cl. 52—718.

Munse, Robert A., to The Bishop and Babcock Corp. Molding clip. 3,357,064, 12–12–67, Cl. 24—73.

Munse, Robert A., to The Bishop and Babcock Corp. C-type fastener. 3,358,729, 12–19–67, Cl. 151—41.75.

Munsey, George B., to Munsey Products Inc. Cooking appliance. 3,307,475, 3–7–67, Cl. 99—340.

Munsey Products Inc.: *See*—
Munsey, George B. 3,307,475.

Munsingwear, Inc.: *See*—
Hall, Alice N. 3,304,942.
Hall, Alice N. 3,349,409.

Munson, Donald J., and K. B. Olander, to The J. R. Clark Co. Collapsible chair. 3,331,629, 7–18–67, Cl. 297—45.

Munson, Verne E., to Bell Telephone Laboratories, Inc. Automatic line testing apparatus. 3,360,617, 12–26–67, Cl. 179—175.3.

Munson, Whitney K. Handgrip unit for rubber stamps. 3,303,780, 2–14–67, Cl. 101—406.

Munson, Whitney K. Handgrip unit for rubber stamps. 3,303,781, 2–14–67, Cl. 101—406.

Munson, Whitney K. Handgrips for rubber stamps. 3,357,351, 12–12–67, Cl. 101—406.

Munson, William A., to Westinghouse Electric Corp. Feedback control for a material handling system providing automatic overshoot correction. 3,303,967, 2–14–67, Cl. 222—14.

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Brian, William J. 3,358,610.

Munters, Carl G. Method in the manufacture of an exchanger packing and exchanger packing manufactured according to said method. 3,307,617, 3–7–67, Cl. 165—10.

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Muntz Stereo-Pak, Inc.: *See*—
Wilson, Rex C. 3,337,104.

Munzer, Anton, and T. Rueger, to Georg Fischer Aktiengesellschaft. Device for molding synthetic fittings. 3,343,801, 9–26–67, Cl. 249—145.

Munzner, Richard: *See*—
Gemeinhardt, Hermann, and Munzner. 3,345,809.

Muotka, Rgener L.: *See*—
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Murai, Wasaburo, to Terasaki Denki Sangyo Kabushiki. High speed circuit interrupter using magnetic blowoff and means for decreasing the inerial effects during interruption. 3,343,-108, 9–19–67, Cl. 335—16.

Murakami, Hiromi, and Y. Morizumi, to Nippon Electric Co., Ltd. Dielectric shield for ultrahigh frequency thermionic tubes. 3,359,446, 12–19–67, Cl. 313—242.

Murakami, Hisato: *See*—
Inaba, Seiuemon, Shimizu, Yoshitake, and Murakami. 3,343,137.

Murakami, Hisato, to Fuji Tsushinki Seizo Kabushiki Kaisha. Numerical control pulse distribution system. 3,325,630, 6–13–67, Cl. 235—61.6.

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Fujimoto, Keisuke, Murakami, and Okuno. 3,303,912.

Murakami, Masuo, K. Takahashi, Y. Hirata, and H. Iwamoto, Yamanouchi Seiyaku K.K. Thiamine derivatives. 3,324,124, 6–6–67, Cl. 260—256.5.

Murakami, Zenji, to Osaka Kiko Kabushiki Kaisha. Tow filament separating apparatus. 3,317,965, 5–9–67, Cl. 19—65.

Muranaka, Takayoshi: *See*—
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Murata, Atsuo, R. Kokubo, M. Nagakura, T. Ohba, and M. Arata, to Nissan Kagaku Kogyo Kabushiki Kaisha. Method of separating melamine from waste gas. 3,308,123, 3–7–67, Cl. 260—249.7.

Murata Mfg. Co. Ltd.: *See*—
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Murata, Yorihiro, and L. R. Sucharski, to The Carborundum Co. Ceramic compositions and process of making same. 3,305,373, 2–21–67, Cl. 106—55.

Murata, Yorihiro, and L. R. Sucharski, to The Carborundum Co. Ceramic compositions and process of making same. 3,305,374, 2–21–67, Cl. 106—57.

Murata, Yorihiro, and L. R. Sucharski, to The Carborundum Co. Ceramic compositions and process of making same. 3,329,513, 7–4–67, Cl. 106—55.

Murayama, Hiroshi: *See*—
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Murayama, Shigeru. Process for purifying polyethylene and polypropylene. 3,326,805, 6–20–67, Cl. 260—93.7.

Murbach, Earl W., to United States of America, Atomic Energy Commission. Production of stoichiometric uranium monocarbide from a uranium fluoride. 3,345,143, 10–3–67, Cl. 23—349.

Murch, Charles J., Jr., to Sanders Associates, Inc. Method of making multilayer circuit boards. 3,352,730, 11–14–67, Cl. 156—3.

Murchison, John R., J. C. Darnall, and C. M. Brassell, to Development and Control Ltd SA. Conveyor system with jam release. 3,326,353, 6–20–67, Cl. 198—165.

Murcott, Charles E. Support belt. 3,307,872, 3–7–67, Cl. 297—385.

Murcott, Charles E. Foot and leg rest for wheelchairs. 3,325,-215, 6–13–67, Cl. 297—433.

Murcott, Charles E. Medication dispensing tray and support therefor. 3,351,210, 11–7–67, Cl. 211—74.

Murdoch, Colin A. Projectile hypodermic syringes. 3,358,685, 12–19–67, Cl. 128—215.

Murdoch, Colin A. Projectile hypodermic syringes. 3,359,979, 12–26–67, Cl. 128—218.

Murdoch, Colin D., to S. May. Automobile safety device. 3,297,361, 1–10–67, Cl. 297—379.

Murdoch, Colin D., to J. E. and M. L. Rhodes. Swingable support for a mirror. 3,360,228, 12–26–67, Cl. 248—480.

Murdoch, John P. Air conditioning system with heating means. 3,320,762, 5–23–67, Cl. 62—183.

Murdoch, John P. Apparatus for handling of animal livestock. 3,332,105, 7–25–67, Cl. 17—24.

Murdoch, Peter, Inc.: *See*—
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Murdoch, Peter N. G., to Peter Murdoch Inc. Seats and their construction. 3,295,890, 1–3–67, Cl. 297—445.

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Murdock, Henry T., and S. M. Ringel, to Allis-Chalmers Mfg. Co. Method of winding dynamoelectric cores by using two winding heads. 3,345,740, 10–10–67, Cl. 29—596.

Murdock, Henry T., and S. M. Ringel, to Allis-Chalmers Mfg. Co. Phase insulation for polyphase dynamoelectric machines. 3,349,265, 10–24–67, Cl. 310—194.

Murdock, James D.: *See*—
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Murdock, James P.: *See*—
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Murdock, Lawrence C.: *See*—
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Murdock, Lawrence C., to The Bissett-Berman Corp. Clamp on system for measuring the characteristics of sea water. 3,314,009, 4–11–67, Cl. 325—51.

Murdock, Robert H., to American Metal Climax, Inc. Rail system. 3,323,781, 6–6–67, Cl. 256—67.

Murdock, Robert H., to American Metal Climax, Inc. Rail system. 3,328,057, 6–27–67, Cl. 287—54.

Murdock, Robert W., to Gregory Industries, Inc. Easy open container. 3,339,790, 9–5–67, Cl. 220—54.

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Murdock, Stanley A., to The Dow Chemical Co. Stabilized polyolefin polymer compositions. 3,328,489, 6–27–67, Cl. 260—897.

Murdock, Thomas B., to United States of America, Atomic Energy Commission. Steam superheating nuclear reactor having steam flow equalizer. 3,354,042, 11–21–67, Cl. 176—59.

Muren, Henry. Flower basket. 3,356,326, 12–5–67, Cl. 248—145.6.

Muren, James F.: *See*—
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Murex Welding Processes Ltd.: *See*—
Brown, Alexander, and Wellard. 3,350,307.

Murib, Jawad H.: *See*—
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Murib, Jawad H., and C. A. Bonecutter, to National Distillers and Chemical Corp. Process for α,w-alkenyl borates. 3,324,146, 6–6–67, Cl. 260—345.1.

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Murine Co. Inc., The: *See*—
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Murino, Matthew. Adjustable presser foot support. 3,326,160, 6–20–67, Cl. 112—240.

Murley, Ellsworth M., Jr., to Owens-Illinois, Inc. Light responsive circuit for inhibiting false signals in article delivery and inspection devices. 3,339,195, 8–29–67, Cl. 340—259.

Murlykin, Anatoly I.: *See*—
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Muroga, Saburo, to International Business Machines Corp. File memory system with key to address transformation apparatus. 3,311,887, 3–28–67, Cl. 340—172.5.

Murphree, Francis J., and J. H. Hammond, to United States of America, Navy. FM sonar exciter. 3,353,148, 11–14–67, Cl. 340—3.

Murphy, Alfred M., C. M. Filak, and T. P. Long, to Reynolds Metals Co. Method and apparatus for extruding tubular members from solid billets or the like. 3,296,848, 1–10–67, Cl. 72—265.

Murphy, Alton L.: *See*—
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Murphy, Bernard T., to Westinghouse Electric Corp. Methods for forming monolithic semiconductor devices. 3,321,340, 5–23–67, Cl. 148—175.

Murphy, Bynum E., to Anderson-Dunham Inc. Tire driven rotary cutter. 3,306,016, 2–28–67, Cl. 56—25.4.

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Murphy, Charles F., to Michigan Magnetics, Inc. Tape drive assembly. 3,337,148, 8–22–67, Cl. 242—55.12.

Murphy, Charles F., and L. W. Page, to Michigan Magnetics, Inc. Combination record and erase head having a magnetic housing. 3,311,710, 3–28–67, Cl. 179—100.2.

Murphy, Clarke, Jr.: *See*—
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Murphy, David J., Jr., to American Air Filter Co., Inc. Particulate-type fluid-treating filter assembly. 3,330,101, 7–11–67, Cl. 55—484.

Murphy, David J., Jr., to American Air Filter Co., Inc. Particulate fluid treating filter assembly. 3,350,861, 11–7–67, Cl. 55—484.

Murphy, David J., Jr., to American Air Filter Co., Inc. Unit filter assembly. 3,354,622, 11–28–67, Cl. 55—484.

Murphy, Demery A. Piston structure. 3,326,092, 6–20–67, Cl. 92—201.

Murphy, Donald P., and G. L. Tupper, to Hooker Chemical Corp. Paint stripping composition and method. 3,308,066, 3–7–67, Cl. 252—158.

Murphy, Earl R., and D. R. Wehner, to Motorola, Inc. Quarter wave low profile antenna tuned to half wave resonance by stub; also including a transistor driving stage. 3,343,-089, 9–19–67, Cl. 325—105.

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Murphy Enterprises, Inc.: *See*—
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Murphy, Eugene S., to Borg-Warner Corp. Multiple disc spot clutch with booster. 3,295,647, 1–3–67, Cl. 192—85.

Murphy, Eugene F., to Sonotone Corp. Battery dispenser-charger devices. 3,297,932, 1–10–67, Cl. 320—2.

Murphy, Eugene S., to Borg-Warner Corp. Torque converter employing ring valve. 3,312,061, 4–4–67, Cl. 60—54.

Murphy, Eugene S., to Borg-Warner Corp. Hydrodynamic transmission system. 3,323,306, 6–6–67, Cl. 60—54.

Murphy, Eugene S., to Borg-Warner Corp. Hydrokinetic and mechanical gear drive. 3,326,065, 6–20–67, Cl. 74—732.

Murphy, Eugene S., to Borg-Warner Corp. Hydrokinetic and mechanical gear drive. 3,326,066, 6–20–67, Cl. 74—732.

Murphy, Francis J. Vibra-watch and jewelry cleaner. 3,352,311, 11–14–67, Cl. 134—86.

Murphy, Francis J., and A. J. Tokola, to Kaiser Steel Corp. Apparatus for driving piles. 3,328,969, 7–4–67, Cl. 61—53.5.

Murphy, Frank H., to General Electric Co. Electric circuit breaker operating mechanism. 3,309,479, 3–14–67, Cl. 200—116.

Murphy, Frank M., and W. L. Sturm. Vibratory massage apparatus. 3,322,116, 5–30–67, Cl. 128—33.

Murphy, Frank W., and F. W. Murphy, Jr. Combination flow responsive switch and indicating gage. 3,355,560, 11–28–67, Cl. 200—81.9.

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Murphy, Frank W., and F. W. Murphy, Jr. 3,355,560.

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Murphy, George P., Jr., to United States of America, Army. Corrosion inhibiting resin-bonded solid film lubricant. 3,314,885, 4–18–67, Cl. 252—25.

Murphy, George T. (by Irene M. Murphy, executrix). Car door barricade. 3,351,122, 11–7–67, Cl. 160—368.

Murphy, Harold T.: *See*—
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Murphy, Herman H. Electric circuit controller. 3,327,260, 6–20–67, Cl. 335—97.

Murphy, Howard E., and J. L. Kabell, to Fairchild Camera and Instrument Corp. Light-to-frequency converter circuit. 3,334,309, 8–1–67, Cl. 331—66.

Murphy, Hugh W., to FMC Corp. Container carrier. 3,310,334, 3–21–67, Cl. 294—87.28.

Murphy, Ira A., to The Dow Chemical Co. Latex comprising the polymerization product of amorphous polyisobutylene, a vinyl aromatic compound and an alkyl acrylate. 3,316,199, 4–25–67, Cl. 260—29.6.

Murphy, Irene M.: *See*—
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Murphy, James, to Murphy Enterprises, Inc. Rim and wheel assembly including an improved wedge clamping device therefor. 3,314,727, 4–18–67, Cl. 301—12.

Murphy, James. Wave machine and means for raising water. 3,335,667, 8–15–67, Cl. 103—68.

Murphy, James A.: *See*—
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Murphy, James F.: *See*—
Amore, Charles J., and Murphy. 3,351,540.

Murphy, James F., to Olin Mathieson Chemical Corp. Primary electric cell having a sheet of foil metallurgically bonded to the anode. 3,317,350, 5–2–67, Cl. 136—100.

Murphy, James F., and A. A. Dolomont, to Olin Mathieson Chemical Corp. Process for treating aluminum weld wire. 3,348,979, 10–24–67, Cl. 148—6.2.

Murphy, James J., to Sperry Rand Corp. Tape feed system. 3,342,430, 9–19–67, Cl. 242—55.12.

Murphy, James L., Jr.: *See*—
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Murphy, John B., to Polaroid Corp. Photographic apparatus. 3,327,599, 6–27–67, Cl. 95—13.

Murphy, John B., to Polaroid Corp. Photographic apparatus. 3,350,991, 11–7–67, Cl. 95—13.

Murphy, John B., to Polaroid Corp. Photographic apparatus. 3,357,330, 12–12–67, Cl. 95—13.

Murphy, John B. Axle bearing tool for use with a press. 3,359,618, 12–26–67, Cl. 29—200.

Murphy, John P. Cellulose isocyanate-aliphatic polyamine ion-exchange composition and method for making same. 3,311,608, 3–28–67, Cl. 260—212.

Murphy, John W.: *See*—
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Murphy, Joseph A., Jr., and D. E. Rohaus, to United States Steel Corp. Speed-control system for briquetting-rolls. 3,328,843, 7–4–67, Cl. 18—21.

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Orfeo, Sabatino R., and Murphy. 3,353,366.
Phillips, Thomas W., Murphy, and Sweeney. 3,309,885.

Murphy, Milford R.: *See*—
Mitchell, Harry W., and Murphy. 3,355,733.

Murphy, Norman A.: *See*—
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Murphy, Norman A., and W. E. Baybutt, to Pilkington Bros. Ltd. Manufacture of lead glasses. 3,326,656, 6–20–67, Cl. 65—134.

Murphy, Oscar V., to Newaygo Engineering Co. Sand cooler. 3,358,380, 12–19–67, Cl. 34—20.

Murphy, Perry J., Jr., and J. T. Shultz; said Shultz, assor. to United States Steel Corp., and said Murphy, assor. to The Van Dorn Iron Works Co. Method of shaping metal. 3,320,102, 5–16–67, Cl. 148—131.

Murphy, Ralph H., to United States of America, Navy. Apparatus for measuring the velocity and distance between bodies during the separation thereof. 3,302,108, 1–31–67, Cl. 324—70.

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Myers, Jack A., to United States of America, Navy. Modular dispenser for aircraft carried devices. 3,308,719, 3-14-67, Cl. 89—1.5.

Myers, Jack A., to United States of America, Navy. Air-arming impact fuze. 3,351,017, 11-7-67, Cl. 102—76.

Myers, Jack A., and C. E. Panlaqui, to United States of America, Navy. Non-lethal method and means for delivering incapacitating agents. 3,332,348, 7-25-67, Cl. 102—6.

Myers, John H., to James R. Kearney Corp. Electrical switch having a pivotable and rotatable blade and switch operating mechanism therefor. 3,299,230, 1-17-67, Cl. 200—48.

Myers, John H., to Rexall Drug and Chemical Co. Adjustable pressure extruding die. 3,343,214, 9-26-67, Cl. 18—12.

Myers John L., to General Motors Corp. Motor speed control circuit. 3,324,372, 6-6-67, Cl. 318—227.

Myers, John L., to H. K. Porter Co., Inc. Multi-outlet wiring device. 3,336,560, 8-15-67, Cl. 339—14.

Myers, John W., and W. C. Lanning, to Phillips Petroleum Co. Production of benzene. 3,296,323, 1-3-67, Cl. 260—672.

Myers, John W., and L. E. Drehman, to Phillips Petroleum Co. Hydrocracking of cycle oils with preliminary solvent extraction to remove coke forming constituents. 3,306,840, 2-28-67, Cl. 208—87.

Myers, Latimer D., to Emery Industries, Inc. Composition comprising butadiene-styrene rubber and polymerized fatty acids. 3,301,802, 1-31-67, Cl. 260—23.7.

Myers, Lawrence A., to Chore-Time Equipment, Inc. Fan blade construction. 3,323,711, 6-6-67, Cl. 230—134.

Myers, Morgan J. Upright burial casket, vault and carrier. 3,348,280, 10-24-67, Cl. 127—2.

Myers, Raymond M. Educational device. 3,318,023, 5-9-67, Cl. 35—35.

Myers, Richard A., to McDonnell Douglas Corp. Forming method and apparatus. 3,339,387, 9-5-67, Cl. 72—63.

Myers, Richard D., to Marathon Products Corp. Single reel endless tape or film cartridge. 3,304,019, 2-14-67, Cl. 242—55.19.

Myers, Richard J., to Manfield Engineering Corp. Adjustable height pedestal. 3,347,511, 10-17-67, Cl. 248—422.

Myers, Robert R., to Aluminum Co. of America. Bundle spacer devices. 3,303,263, 2-7-67, Cl. 174—42.

Myers, Robert R. Swimming pool cleaning means. 3,321,787, 5-30-67, Cl. 15—1.7.

Myers, Robert R. Swimming pool cleaning means. 3,324,492, 6-13-67, Cl. 15—1.7.

Myers, Thomas E., to Ideal Industries Inc. Relay switching circuit. 3,303,397, 2-7-67, Cl. 317—148.5.

Myers, Thomas E., to Ideal Industries, Inc. Voltage polarity and frequency tester having A.C.-D.C. compensation and gas tube indicators. 3,304,498, 2-14-67, Cl. 324—133.

Myers, Thomas E. Ducted rotor aircraft. 3,314,628, 4-18-67, Cl. 244—17.17.

Myers, Thomas E., to Ideal Industries, Inc. Human contact controlled dimmer circuit with multivibrator and biswitch operation. 3,320,437, 5-16-67, Cl. 307—88.5.

Myers, Thomas E., to Ideal Industries, Inc. Human contact controlled switching circuit using a multivibrator and biswitch. 3,320,438, 5-16-67, Cl. 307—88.5.
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Myers, Thomas E., to Ideal Industries, Inc. Capacitor operated SCR switching circuit. 3,329,838, 7-4-67, Cl. 307—

Myers, Thomas E., to Ideal Industries, Inc. SCR controlled, capacitor fed relay with filter means. 3,330,996, 7-11-67, Cl. 317—147.

Myers, Thomas E., to Ideal Industries, Inc. Bistable multivibrator for operating a pair of control coils. 3,335,333, 8-8-67, Cl. 317—149.

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Myers, William D., to Baker Oil Tools, Inc. Retrievable parallel string well packer apparatus. 3,335,800, 8-15-67, Cl. 166—119.

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Myhr, Oystein. Portable instruction and demonstration unit with various equipment. 3,345,760, 10-10-67, Cl. 35—60.

Myklebust, Roger, S. Forsberg, and B. Lomar, to Allmänna Svenska Elektriska Aktiebolaget. Cooling electrical equipment. 3,319,156, 5-9-67, Cl. 323—78.

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Myles, John S., to Northern Electric Co., Ltd. Polar grounded loop D.C. telegraph receiver circuit. 3,321,578, 5-23-67, Cl. 178—68.

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Myles, Tommie L. Gas turbine engine with rotating combustion chamber. 3,321,911, 5-30-67, Cl. 60—39.35.

Mylo, John, to Monsanto Co. Apparatus for crimping tow. 3,295,180, 1-3-67, Cl. 28—1.

Mylo, John, to Monsanto Co. Continuous fiber treating apparatus. 3,328,982, 7-4-67, Cl. 68—5.

Mylo, John, to Monsanto Co. Method and apparatus for cutting fiber tow into staple. 3,334,532, 8-8-67, Cl. 83—18.

Mylo, John, to Monsanto Co. Staple fiber cutter. 3,353,431, 11-21-67, Cl. 83—116.

Mylo, John, to Monsanto Co. Process for crimping filaments at the spinneret face. 3,359,356, 12-19-67, Cl. 264—168.

Mylrea, Bruce W., Sr., and D. R. Scarbrough, Sr., to Lockheed Aircraft Corp. Aerial delivery system. 3,323,762, 6-6-67, Cl. 244—138.

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Myon, Rene, to Appareils et Evaporateurs Kestner. Methods of concentrating phosphoric acid. 3,314,757, 4-18-67, Cl. 23—165.

Mytinger, Lawrence B., to Moak Machine and Foundry Co. Tilting arbor saw. 3,315,715, 4-25-67, Cl. 143—36.

Mytinger, Lawrence B., to Moak Machine and Foundry Co. Fence for tilting arbor saw. 3,315,716, 4-25-67, Cl. 143—174.

Mytum, Ernest, to Courtaulds Ltd. Manufacture of crimped viscose rayon fibres. 3,340,340, 9-5-67, Cl. 264—168.

Mytych, Casimir J., and T. A. Tietjen, to Xerox Corp. Method for simultaneous production of a plurality of microcircuit wafers. 3,334,000, 8-1-67, Cl. 156—11.

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NRA, Inc.: *See*—
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N.V. Koninklijke Metaalwarenfabrieken voorheen J. N. Daalderop & Zonen: *See*—
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N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia: *See*—
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N.V. Maatschappy Voor Industriële Research en Ontwikkeling: *See*—
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N.V. Machinenfabriek L. Te Strake: *See*—
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N.V. Mij Voor Industriele Research en Ontwikkeling: *See*—
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Akkerman, Antony M., Van Leeuwen, and Michels. 3,312,700.
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Bussink, Jan, Van Lohuizen, and Vollbracht. 3,337,501.
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Becker, Johannes. 3,357,776.
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Kastning, Ernst-Guenther, Naarmann, Berding, and Reis. 3,296,220.
Rauschenbach, Rolf D., Naarmann, Meyer, and Ilgemann. 3,326,832.
Naarmann, Herbert, and E.-G. Kastning to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ethylene vinyl tertiary alcohol copolymers. 3,313,789, 4–11–67, Cl. 260—80.5.
Naarmann, Herbert, and E.-G. Kastning, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polymers of olefines. 3,324,092 6–6–67. Cl. 260—88.1.
Nabben, Marvin. Air operated fresh air ventilator. 3,299,798, 1–24–67, Cl. 98—119.
Naber, Joseph, M. J. Fox, E. D. Chalmers, J. Y. Ma, J. G. Cummings, and N. D. Cappelle, to Oak Electro/Netics Corp. UHF tuner. 3,307,414, 3–7–67, Cl. 74—10.41.
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Nadaud, Marcel. Heel construction. 3,359,660, 12–26–67, Cl. 36—37.
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Naddell, Manuel, to General Motors Corp. Hydropneumatic suspension device. 3,342,475, 9–19–67, Cl. 267—64.
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Nadel, Isidore G. Solid propellants in textile form. 3,304,867, 2–21–67, Cl. 102—98.
Nadel, Isidore G. Method of making solid propellants in textile form. 3,348,445, 10–24–67, Cl. 86—1.
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Nadherny, John D., to H. and R. B. Spector, a partnership, d.b.a. Superior Toy & Mfg. Co. Coin transfer bank. 3,299,899, 1–24–67, Cl. 133—3.
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Nadolny, Walter. Racing gate for model cars. 3,339,923, 9–5–67, Cl. 273—86.
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Naef, Johannes, to S. A. Maglum. Angularly adjustable seat. 3,328,076, 6–27–67, Cl. 297—363.
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Naeser, Gerhard, to Mannesmann Aktiengesellschaft. Method of manufacturing semi-fabricated products of chrome-nickel steels. 3,334,999, 8–8–67, Cl. 75—201.
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Naeser, Gerhard, W. Scholz, O. Wessel, and N. Dautzenberg, to Mannesmann Aktiengesellschaft. Method of producing metal alloys having a high nitrogen content. 3,357,827, 12–12–67, Cl. 75—224.
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Nagata, Minoru, to Kabushiki Kaisha Hitachi Seisakusho. Two input field effect transistor amplifier. 3,360,736, 12–26–67, Cl. 330—38.
Nagata, Minoru, and M. Ono, to Kabushiki Kaisha Hitachi Seisakusho. Electronic circuit having a field-effect transistor therein. 3,311,756, 3–28–67, Cl. 307—88.5.
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Nagata, Shigeyoshi. Tooth profiles of non-pulsating, rotary pistons which are non-circular, spur-toothed and provided with non-circular gears. 3,305,167, 2–21–67, Cl. 230—141.
Nagata, Takashi, H. Hirohata, M. Ishibashi, and S. Arimura, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic resonator devices. 3,348,078, 10–17–67, Cl. 310—9.5.
Nagata, Wataru, to Shionogi & Co., Ltd. D-homo steroids containing a —CHO group in 18-position. 3,345,385, 10–3–67, Cl. 260—340.9.
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Nagele, Karl F. Sewing machine for sewing covering strips. 3,301,203, 1–31–67, Cl. 112—2.
Nagele, Rudolf, and A. Poocza, to May-Pressenbau G.m.b.H. Overload safety device in machines. 3,348,429, 10–24–67, Cl. 74—584.
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Nemec, Joseph W., and R. B. Wuchter, to Rohm & Haas Co. Method for the preparation of acrylate dimers and trimers. 3,342,854, 9–19–67, Cl. 260—485.

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Pearlman, Alan R., and Miller. 3,329,836.

Ney, Andrew V., to Salem Valve Co. Apparatus for controlling fluid flow. 3,320,973, 5–23–67, Cl. 137—596.

Ney, Robert J., to General Electric Co. Electron image tube fiber optical face plate seal structure. 3,335,310, 8–8–67, Cl. 313—89.

Neyale Ltd.: *See*—
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Neyer, Charles W. Holder for cylindrical objects and package thereof. 3,322,269, 5–30–67, Cl. 206—80.

Neyhouse, George A.: *See*—
Sones, William L., Elliott, and Neyhouse. 3,300,150.
Sones, William L., Elliott, and Neyhouse. 3,324,672.
Sones, William L., Elliott, and Neyhouse. 3,339,628.

Neyland, William M. Subirrigation conduit. 3,333,422, 8–1–67, Cl. 61—13.

Neyraud, Rene, to Societe des Mecaniques Verdol. Driving mechanisms for loom jacquards. 3,356,109, 12–5–67, Cl. 139—1.

Neyroud, Andre: *See*—
Habozit, Fortune, and Neyroud. 3,325,045.

Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Inc. Variable ferromagnetic attenuator having a constant phase shift for a range of wave attenuation. 3,317,863, 5–2–67, Cl. 333—81.

Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Inc. Electromagnetic wave delaying arrangement with constant iterative impedance. 3,344,366, 9–26–67, Cl. 333—31.

Niagara Frontier Services, Inc.: *See*—
Graveley, Oscar W. 3,304,797.

Niagara Plastics Co.: *See*—
Brown, Robert. 3,306,153.

Niagara Plastics Co., Inc.: *See*—
Rooney, James L. 3,312,376.

Nibco Inc.: *See*—
Jayne, Theodore D. 3,334,925.

Nibot Corp.: *See*—
Kastamo, James L., Means, Barr, Ostrowsky, and Best. 3,343,719.

Nicastro, Sebastian V., to The Firewel Co., Inc. Breathing pack for converting liquid air or oxygen into breathable gas. 3,318,307, 5–9–67, Cl. 128—142.2.

Niccoli, George J., to The Frederick Post Co. Sheet-feeding method and apparatus. 3,350,089, 10–31–67, Cl. 270—58.

Niccum, Forest G., to Marvel Engineering Co. Filter. 3,329,269, 7–4–67, Cl. 210—90.

Niccum, Forest G., and W. J. Kudlaty, to Marvel Engineering Co. In-line filter structure. 3,334,747, 8–8–67, Cl. 210—130.

Niccum, Ronald J.: *See*—
Heinrich, Helmut G., Haak, Niccum, and Gimalouski. 3,298,639.

Nichimen Co., Ltd.: *See*—
Prager, Joseph H. 3,319,003.

Nichol, Iven G., to Morningstar-Paisley, Inc. Method for joining waxed paperboard surfaces. 3,313,218, 4–11–67, Cl. 93—36.

Nichol, Richard J., to Avon Products, Inc. Molded laminated article. 3,298,558, 1–17–67, Cl. 220—63.

Nichol, Richard J., to Avon Products, Inc. Compact. 3,314,436, 4–18–67, Cl. 132—83.

Nicholas, Arthur S., to Leon Chemical Industries, Inc. Receiver for belt retractors. 3,313,574, 4–11–67, Cl. 297—388.

Nicholas, Arthur S., to Leon Chemical and Plastics Inc. Seat belt unit. 3,318,634, 5–9–67, Cl. 297—388.

Nicholas, Arthur S., and D. L. Fuerst. Seat belt terminal jacket. 3,305,266, 2–21–67, Cl. 297—385.

Nicholas, Clemens. Portable easel for artists and the like. 3,360,226, 12–26–67, Cl. 248—455.

Nicholas, David W.: *See*—
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Nicholas, Edward W., and A. T. Dildilian, to Fiber Glass Industries, Inc. Glass fabric with particulate material and pile yarns penetrating the same. 3,320,113, 5–16–67, Cl. 161—66.

Nicholas, James H., to G & W Electric Specialty Co. Double ended perforated paper roll with plastic film laminations. 3,322,884, 5–30–67, Cl. 174—73.

Nicholas, James S.: *See*—
Perry, Marvin L., and Nicholas. 3,331,131.

Nicholas, John F., to United States of America, Air Force. Fail safe DC differential amplifier. 3,350,657, 10–31–67, Cl. 330—69.

Nicholas, Merle E., and J. J. Renier, to Honeywell Inc. Condition responsive device. 3,336,212, 8–15–67, Cl. 204—195.

Nicholl, Edward J., to Dowty Rotol Ltd. Aircraft with load compensating landing gear. 3,327,974, 6–27–67, Cl. 244—100.

Nicholl, Peter J., to Brown and Williamson Tobacco Corp. Extrusion dies. 3,298,062, 1–17–67, Cl. 18—12.

Nicholls, Augustus H. Honeycomb core construction through the application of heat and pressure. 3,345,735, 10–10–67, Cl. 29—470.9.

Nicholls, Barry, and J. B. Rose, to Imperial Chemical Industries Ltd. Maleic anhydride copolymers. 3,318,851, 5–9–67, Cl. 260—78.5.

Nicholls, Leonard R. Pumping unit for deep wells or bores. 3,332,355, 7–25–67, Cl. 103—158.

Nichols, Charles A., A. H. Joyce, C. W. Gardner, and W. A. Fletcher, to General Motors Corp. Battery grid casting method and machine. 3,300,821, 1–31–67, Cl. 22—57.4.

Nichols, Claude C. Fluid pump. 3,318,252, 5–9–67, Cl. 103—87.

Nichols, Dale A. Pipe holder. 3,297,217, 1–10–67, Cl. 224—5.

Nichols, Donald A., to United States of America, Navy. Minimum width towline with damage shield. 3,343,515, 9–26–67, Cl. 114—235.

Nichols, Donald A., and J. O. Natwick, to United States of America, Navy. Minimum width towlines with stretchable electrical cable and improved clamping means. 3,343,516, 9–26–67, Cl. 114—235.

Nichols, Donald E. Vehicle fuel consumption indicating instrument. 3,308,655, 3–14–67, Cl. 73—114.

Nichols, Edgar B. Bowling pin with homogeneous nylon casing including an interior filamentary structure. 3,300,214, 1–24–67, Cl. 273—82.

Nichols, Edgar B. Power-transmission chain. 3,316,771, 5–2–67, Cl. 74—248.

Nichols, Edgar B. Prepared paints and color kits for artists. 3,359,228, 12–19–67, Cl. 260—33.4.

Nichols Engineering, Inc.: *See*—
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Nichols Engineering & Research Corp.: *See*—
Brennan, Bernard E. 3,358,622.

Nichols, Frank M. Smoke signal. 3,354,829, 11–28–67, Cl. 102—90.

Nichols, Frank S., and E. K. Steele, to General Electric Co. Method of making electrical coils. 3,352,711, 11–14–67, Cl. 117—201.

Nichols, George B. Extruder, etc. 3,310,836, 3–28–67, Cl. 18—12.

Nichols, George M., to E. I. du Pont de Nemours and Co. Fluorinated phosphonitriles. 3,316,330, 4–25–67, Cl. 260—927.

Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Easel type mount. 3,305,206, 2–21–67, Cl. 248—459.

Nichols, Joseph, to Johnson & Johnson. Eel-like amusement device. 3,347,545, 10–17–67, Cl. 272—8.

Nichols, Mark R., to United States of America, National Aeronautics and Space Administration. Nacelle afterbody for jet engines. 3,347,466, 10–17–67, Cl. 239—265.19.

Nichols, Newlin S.: *See*—
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Nichols, Proctor W., to Aircraft Mechanics, Inc. Adjustable electrically powered aircraft seat. 3,319,921, 5–16–67, Cl. 248—419.

Nichols, Proctor W., to Aircraft Mechanics, Inc. Motor driven seat with manual override. 3,330,523, 7–11–67, Cl. 248—419.

Nichols, Ray E.: *See*—
Massey, Thomas, Jr., Nichols, and Swift. 3,327,276.

Nichols, Raymond A.: *See*—
Lynch, John F., and Nichols. 3,356,461.

Nichols, Robert A. Accessory clip for drafting instruments. 3,327,360, 6–27–67, Cl. 24—80.

Nichols, Robert A. Door latching device. 3,346,290, 10–10–67, Cl. 292—141.

Nichols, Robert K., to Communications Construction & Excavating Co., Inc. Cable laying attachment for a scraper vehicle. 3,308,628, 3–14–67, Cl. 61—72.6.

Nichols, Samuel C., to Jantzen Inc. Display stand. 3,341,028, 9–12–67, Cl. 211—178.

Nichols, Thomas H.: *See*—
Legal, Casimer C., Jr., Nichols, and Patterson. 3,316,676.
Wise, Andrew E., Chapin, and Nichols. 3,317,307.

Nichols, Victor L., and I. J. Garshells, to David & David, Inc. Method and apparatus for producing textured yarn. 3,342,026, 9–19–67, Cl. 57—34.

Nichols, Victor L., and I. J. Garshells, to David and David, Inc. Speed control means. 3,357,649, 12–12–67, Cl. 242—45.

Nichols, William A., and R. E. Simpson. Automatic tape winder. 3,311,317, 3–28–67, Cl. 242—67.1.

Nicholson, Brian D.: *See*—
Standridge, James A., and Nicholson. 3,310,019.
Standridge, James A., and Nicholson. 3,315,629.

Nicholson, Burnard E., to Radio Corp. of America. Linearity correction circuit. 3,310,705, 3–21–67, Cl. 315—27.

Nicholson, Edward W. S.: *See*—
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Merz, Max. 3,327,741.
Merz, Max. 3,334,670.

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Nicholson, James F., to Westinghouse Electric Corp. Television camera devices and related systems. 3,341,734, 9–12–67, Cl. 315—12.

Nicholson, John A. Remote control for an internal combustion engine. 3,338,225, 8–29–67, Cl. 123—179.

Nicholson Mfg. Co.: *See*—
Robbins, George E. 3,333,615.

Nicholson, Merle A., to Wood Conversion Co. Ventilating ceiling and suspension grid therefor. 3,354,598, 11–28–67, Cl. 52—732.

Nicholson, Patricia C., to National Geographic Society. Phonograph book with indexing means. 3,321,208, 5–23–67, Cl. 274—42.

Nicholson, Peter, to British Insulated Callender's Cables Ltd. Supporting of electric cables whilst travelling in the direction of their length. 3,341,637, 9–12–67, Cl. 264—22.

Nicholson, Raymond B., and W. S. Richardson, to Westinghouse Electric Corp. X-ray brightness control system with means to vary the power applied to the X-ray source. 3,345,516, 10–3–67, Cl. 250—103.

Nicholson Tile Co.: *See*—
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Nicholson, William A., to Radiation Ltd. Radiating or incandescent burner. 3,298,419, 1–17–67, Cl. 158—99.

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Nicita, Domenico, and P. Parmeggiani, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Apparatus for melt-spinning. 3,325,863, 6–20–67, Cl. 18—8.

Nicita, Michael: *See*—
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Nick, Otto C.: *See*—
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Nick, Stanley W. Tape spacer device for an endless tape reel. 3,345,013, 10–3–67, Cl. 242—71.8.

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Geldzahler, Charles, and Grossman. 3,334,034.

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Nickel, Ronald W., Whiteaker, and D. D. Nickel. 3,303,949.

Nickel, Hal G. Perforated hardboard. 3,306,564, 2–28–67, Cl. 248—225.

Nickel, Heinz: *See*—
Eggeling, Ernst, Neese, and Nickel. 3,344,492.

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Nickel, Ronald W., D. J. Whiteaker, and D. D. Nickel. Refuse truck. 3,303,949, 2–14–67, Cl. 214—83.3.

Nickell, Eldon G. Shock absorber. 3,327,814, 6–27–67, Cl. 188—129.

Nickell, Lawrence C.: *See*—
Fertig, Raymond B., and Nickell. 3,345,836.

Nickell, Lawrence C., and R. B. Fertig, to Appalachian Electronic Instruments, Inc. Retro-reflective stop motion system. 3,345,835, 10–10–67, Cl. 66—166.

Nickels, Frank J., Jr., to Sun Shipbuilding & Dry Dock Co. Ship stabilization systems. 3,354,859, 11–28–67, Cl. 114—125.

Nickelson, Robert W., to Beltone Electronics Corp. Fluid switching device. 3,360,625, 12–26–67, Cl. 200—152.

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Curello, Charles, and Nickerson. 3,354,849.

Nickerson, Bryan W., Jr. Traction boot. 3,329,191, 7–4–67, Cl. 152—239.

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Webb, James E. 3,339,863.

Nicklas, William H.: *See*—
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Braunwarth, Victor A., Nickle, and Phillips. 3,346,368.

Nickles, Lawrence H., to General Motors Corp. Blade lock. 3,295,826, 1–3–67, Cl. 253—77.

Nicko, Stanley, to Flake-Ice Machines, Inc. Combination cap and tapping plug for spouts, bottles or the like. 3,343,699, 9–26–67, Cl. 215—38.

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Niclas, Giulio G., to Ejectoret S.A. Apparatus for filling cosmetic articles. 3,313,085, 4–11–67, Cl. 53—127.

Niclas, Giulio G., to Ejectoret S.A. Method for the production of cosmetic sticks, particularly lipsticks. 3,315,344, 4–25–67, Cl. 29—428.

Niclas, Karl B., to General Electric Co. Beam focusing magnet system. 3,334,264, 8–1–67, Cl. 315—3.5.

Nico Pyrotechnik Hanns-Jurgen Diederich K. G.: *See*—
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Nicodemus, David O., and J. P. Mulroney, to Rohm & Haas Co. Choline chloride powder and method of production. 3,356,569, 12–5–67, Cl. 167—55.

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Nicol, John, to The Weatherhead Co. Hose and metal tube coupling. 3,345,091, 10–3–67, Cl. 285—256.

Nicolas, Guy: *See*—
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Nicolas, Michel, to Compagnie Industrielle Francaise des Tubes Electroniques. Oil-vapor diffusion vacuum pump. 3,302,864, 2–7–67, Cl. 230—101.

Nicolas, Michel, to Compagnie Industrielle Francaise des Tubes Electroniques. Fluid trap. 3,315,448, 4–25–67, Cl. 55—441.

Nicolau, Ioan, L. Dogaru, C. Evghenide, A. Ionascut, N. Tibon, and V. Motoroiu, to Ministerul Petrolului. Method and means for measuring fluid density. 3,345,881, 10–10–67, Cl. 73—434.

Nicolau, Nick G.: *See*—
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Nicolaus, Bruno J. R., and E. Testa, to Lepetit S.p.A. O-(β-hydroxyethyl)-hydroxylamines and process for their manufacture. 3,344,190, 9–26–67, Cl. 260—584.

Nicolaus, Norbert, to Firma Homann-Maytag G.m.b.H. Conveyor apparatus. 3,306,420, 2–28–67, Cl. 198—19.

Nicolet Industries, Inc.: *See*—
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Nicoll, Frederick H., and H. F. Ogawa, to Radio Corp. of America. Electrostatic printing method and element. 3,317,315, 5–2–67, Cl. 96—1.1.

Nicoll, William D.: *See*—
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Nicoloff, Nicholas: *See*—Hubbard, William C., and Nicoloff. 3,303,945.

Nicoloff, Nicholas, to United States of America, Navy. Apparatus for releasably suspending objects under water. 3,337,255. 8–22–67, Cl. 294—66.

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Nicolson, Kingsley M., to Chevron Research Co. Offshore deep drilling method from a floating platform. 3,315,742, 4–25–67, Cl. 166—.6.

Nicolson, Kingsley M., to Chevron Research Co. Offshore deep drilling method from a floating platform. 3,341,398, 9–12–67, Cl. 175—7.

Nicolson, Richard E.: *See*—
Klosek, Felix P., Nicolson, and Spence. 3,327,034.

Nicosia, Joseph A. Expandable building panel. 3,309,827, 3–21–67, Cl. 52—241.

Nicosia, Joseph T. Motion picture projector. 3,305,296, 2–21–67, Cl. 352—129.

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Niebergall, Louis F.: *See*—
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Niebergall, Louis F., to Walker Mfg. Co. Dual element parallel flow filter assembly. 3,353,680, 11–21–67, Cl. 210—314.

Niedereder, Martin, to Siemens & Halske Aktiengesellschaft. Amplitude stabilized alternating current generator. 3,339,158, 8–29–67, Cl. 331—141.

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Niederer, Otto C. and H. O. 3,349,907.

Niederer, Otto C.: *See*—
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Niederer, Otto C. and H. O. Packing equipment. 3,316,688, 5–2–67, Cl. 53—62.

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Horn, Elmar-Manfred, and Niederprum. 3,345,396.
Horn, Elmar-Manfred, and Niederprum. 3,357,949.
Simmler, Walter, and Niederprum. 3,345,393.
Simmler, Walter, Niederprum, and Jonas. 3,350,437.

Niederprum, Hans, and W. Simmler, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of hydrolyzable aminomethylsilicon compounds. 3,311,651, 3–28–67, Cl. 260—448.2.

Niederwemmer, Paul. Irrigation installation and mobile vehicle for producing the same. 3,309,875, 3–21–67, Cl. 61—13.

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Niedlek, Hans H., to International Standard Electric Corp. Method for the counting of vehicles the speed of which either exceeds or falls short of a predetermined value. 3,341,848, 9–12–67, Cl. 343—8.

Niedrach, Leonard W., to General Electric Co. Electrode structure and fuel cell incorporating the same. 3,297,484, 1–10–67, Cl. 136—86.

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Niedzielski, Edmund L., to E. I. du Pont de Nemours and Co. Triaryl phosphate mixtures. 3,356,471, 12–5–67, Cl. 44—69.

Niedzielski, Edmund L., and R. E. Putnam, to E. I. du Pont de Nemours and Co. Diffusion process and apparatus. 3,307,330, 3–7–67, Cl. 55—16.

Niedzwiecki, Joseph F., to Ingersoll-Rand Co. Fluid operated stud driver tool. 3,348,291, 10–24–67, Cl. 29—212.

Niedzwiecki, Joseph F., to Ingersoll-Rand Co. Descaling tool. 3,349,461, 10–31–67, Cl. 29—81.

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Niehaus, Edward J., Jr., and E. C. Warrick, to Rockwell Mfg. Co. Variable speed power feed mechanism for drill presses and like power tools. 3,314,312, 4–18–67, Cl. 77—33.8.

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Nieland, Paul J., to The Telex Corp. Tape drive actuating mechanism for tape handling machines. 3,348,750, 10–24–67, Cl. 226—90.

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Nield, Eric, to Imperial Chemical Industries Ltd. Process for producing acid imide derivatives. 3,338,919, 8–29–67, Cl. 260—326.5.

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Nielsen, Albert T.: *See*—
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Nielsen, Anker J., Jr., and L. H. Morse, to Omco, Inc. Thermal cutoff switch. 3,297,847, 1–10–67, Cl. 200—142.

Nielsen, Anton L. Apparatus for making ice cream bars. 3,327,651, 6–27–67, Cl. 107—8.

Nielsen, Axel L. Mounting means for sub-floor pump. 3,296,971, 1–10–67, Cl. 103—102.

Nielsen, Carl A.: *See*—
Daw, Garfield A., and Nielsen. 3,299,435.

Nielsen, Carl L., to Shell Oil Co. Asphalt-resin-block copolymer roofing compositions. 3,345,316, 10–3–67, Cl. 260—28.5.

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Nielsen, Edwin A.: *See*—
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Nielsen, Emery H., and L. V. Volkel, to The Dow Chemical Co. Well fracturing method. 3,310,112, 3–21–67, Cl. 166—42.

Nielsen, Erik J.: *See*—
Mierendorf, Robert C., Nielsen, and Boley. 3,336,482.
Parris, Thomas, and Nielsen. 3,351,893.

Nielsen, Erik J., to Square D Co. Segmented electrical terminal strip. 3,302,160, 1–31–67, Cl. 339—198.

Nielsen, Erik R., and E. A. Swire, to Mono-Sol Corp. Resinous polymer dispersion and method of making the same. 3,304,279, 2–14–67, Cl. 260—30.6.

Nielsen, Erik R., and W. L. Stepp, to IIT Research Institute. Stable phosphonitrilic polymers. 3,348,926, 10–24–67, Cl. 23—351.

Nielsen, Floyd B., to United States of America, Air Force. Laser initiated rocket type igniter. 3,296,795, 1–10–67, Cl. 60—39.82.

Nielsen, Georg P. C., to Allen Christensen & Co. Bed or chair with supporting surfaces having angular positions variable in relation to each other. 3,305,877, 2–28–67, Cl. 5—67.

Nielsen, Georg P. C., to Allan Christensen & Co., Firm. Clamping mechanism for the clamping of at least two bars in proportion to an axis crossing the bars. 3,341,234, 9–12–67, Cl. 287—51.

Nielsen Hardware Corp., The: *See*—
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Nielsen, Helmar T., and K. A. Hansen, to Daufoss ved ing. M Clausen. Packed stem valves. 3,297,054, 1–10–67, Cl. 137—637.4.

Nielsen, Helmar T., and K. A. Hansen, to Danfoss A/S. Automatic thermostatic valve regulator. 3,307,404, 3–7–67, Cl. 73—368.7.

Nielsen, Helmar T., and K. A. Hansen, to Danfoss A/S. Thermostatic valve regulator. 3,309,926, 3–21–67, Cl. 73—368.7.

Nielsen, Helmar T., and K. A. Hansen, to Danfoss A/S Valve and valve disc. 3,310,277, 3–21–67, Cl. 251—84.

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Nielsen, Helmer B., to Eddy Match Co., Ltd. Coin escrow device. 3,337,125, 8–22–67, Cl. 232—57.5.

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Nishida, Saichi, M. Yoshioka, and H. Uchiyama, to Yawata Iron & Steel Co., Ltd. Hot stove having a spherical top. 3,334,880, 8–8–67, Cl. 263—19.

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Nishigaki, Susumu, T. Nakamura, T. Kusaka, and T. Yano, to NGK Insulators, Ltd. Method of rust proofing treatment of metals. 3,342,710, 9–19–67, Cl. 204—56.

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Nishii, Masahiko, and Y. Suzuki, to To Yo Da Automatic Loom Works, Ltd., and Kanegafuchi Boseki Kabushiki-Kaisha. Apparatus for continuously effecting automatic bobbin exchange on spinning machine. 3,307,340, 3–7–67, Cl. 57—53.

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Nishioka, Hideya, to Fujitsu Ltd. Transistorized multivibrator having very good stability. 3,341,788, 9–12–67, Cl. 331—113.

Nishioka, Kunio, S. Nishimura, and S. Kato, to Summimoto Metal Industries Ltd. Air spring. 3,351,337, 11-7-67, Cl. 267—65.

Nishioka, Tasaburo. Apparatus for alternately bending to draw wire or plate. 3,326,025, 6-20-67, Cl. 72—161.

Nishiura, Osamu, S. Mano, I. Moridaw, and K. Yakahashi, to Japan Reichhold Chemicals, Inc. Sizing agents and processes for preparation thereof. 3,299,034, 1-17-67, Cl. 260—101.

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Nissen, George P., to Nissen Corp. Portable and demountable recreational apparatus. 3,339,925, 9-5-67, Cl. 273—95.

Nissen, George P., and H. J. Kelly, to Nissen Corp. Height adapter for foldable trampolines. 3,303,905, 2-14-67, Cl. 182—137.

Nissen, George P., E. C. Stuckenschneider, and H. J. Kelly, to Nissen Corp. Supporting stand storage device. 3,323,767, 6-6-67, Cl. 248—165.

Nissen, George P., and H. J. Kelly, to Nissen Corp. Leveling device for gymnastic apparatus. 3,347,508, 10-17-67, Cl. 248—188.4.

Nissen, Hans G., and A. I. Martin. Heating and roasting devices, with system for collection of grease drippings. 3,320,873, 5-23-67, Cl. 99—423.

Nissen, Niels A., to Collins Radio Co. Temperature cycling device for precision frequency crystals. 3,295,592, 1-3-67, Cl. 165- 12.

Nisser, Henrik, to J. M. Voith, G.m.b.H. Process and apparatus for the production of fibrous webs, especially for making paper or cardboard. 3,330,723, 7-11-67, Cl. 162—208.

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Nissim, Samuel, to The Bunker-Ramo Corp. Selection device. 3,316,540, 4-25-67, Cl. 340—172.5.

Nissley, Robert B. Interlocking joint for abutted edges of insulated panel sections. 3,327,447, 6-27-67, Cl. 52—582.

Nissman, Marvin J., to Ronson Corp. Mixing and blending device. 3,315,946, 4-25-67, Cl. 259—108.

Nist, Ferdinand J., Jr., to Seattle Box Co. Collapsible container. 3,323,674, 6-6-67, Cl. 217—12.

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Nitchie, Charles D., to Koppers Co., Inc. Apparatus for applying adhesive to a moving web. 3,303,814, 2-14-67, Cl. 118—249

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Nitsche, Joseph E.: *See*—
Guyer, Edwin M., and Nitsche. 3,313,608.

Nitsche, Joseph E., to Corning Glass Works. Methods for forming materials of high purity by fusion. 3,303,115, 2-7-67, Cl. 204—130.

Nitsche, Rudolf, to Radio Corp. of America. Ferroelectric circuit element material and transducer utilizing same. 3,348,-077, 10-17-67, Cl. 310—8.5.

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Nitschke, Bruno, and A. Ruckerl, to Siemens & Halske Aktiengesellschaft. Keyboard capable of producing either of two different codes. 3,357,534, 12-12-67, Cl. 197—98.

Nitschke, Manfred: *See*—
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Nitta, Yoshihiro, F. Yoneda, and T. Miyamoto, to Chugai Seiyaku Kabushiki Kaisha. Benzamidopyrimidines. 3,317,-534, 5-2-67, Cl. 260—256.4.

Nitta, Yoshihiro, K. Okui, and K. Ito, to Chugai Seiyaku Kabushiki Kaisha. 6-halo-2-amino substituted-4-sulfanilamido-pyrimidine compounds. 3,328,395, 6-27-67, Cl. 260—239.75.

Nitta, Yoshihiro, A. Shioya, and F. Yoneda, to Chugai Seiyaku Kabushiki Kaisha. 3-phenyl substituted-1-acetamido-pyridazone derivatives and their preparation. 3,328,403, 6-27-67, Cl. 260—250.

Nitta, Yoshio: *See*—
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Nitta, Yoshio, T. Takemura, and K. Kawasaki, to Fuji Denki Seizo Kabushiki Kaisha. Apparatus for detecting a signal advanced by a predetermined time interval relative to a zero point of an alternating electric current. 3,315,169, 4-18-67, Cl. 328—150.

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Nittel, Eugenie, nee Krause. Heating structure, particularly for welding plastics. 3,337,716, 8-22-67, Cl. 219—541.

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Nitti, Nicholas J.: *See*—
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Bennion, David R., English, and Nitzan. 3,322,965.

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Nitzan, David, to AMP Inc. Circuit for multi-aperture magnetic core devices. 3,349,380, 10-24-67, Cl. 340—174.

Nitzsche, Bertha P. Tire rivets. 3,308,867, 3-14-67, Cl. 152—370

Nitzsche, Siegfried: *See*—
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Nitzsche, Siegfried, M. Wick, and P. Hittmair, to Wacker-Chemie G.m.b.H. Silicone rubber foam compositions. 3,338,-847, 8-29-67, Cl. 260—2.5.

Nitzsche, Siegfried, and P. Buchheit, to Wacker-Chemie G.m.b.H. Preparation of silarylenesilanol and polysilarylenesiloxanols. 3,338,870, 8-29-67, Cl. 260—46.5.

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Nivens, Allen B., to Ideal Industries, Inc. Sliver coiler. 3,299,479, 1-24-67, Cl. 19—159.

Nivens, Allen B., to Ideal Industries, Inc. Coiler stop motion apparatus for textile machines. 3,316,597, 5-2-67, Cl. 19—.2.

Nivens, Allen B., and J. A. F. Rayfield, to Ideal Industries, Inc. Stop motion apparatus for textile machines. 3,311,-953, 4-4-67, Cl. 19—.23.

Niviere, Jean, to Ets. Marechal Co. Process for the manufacture of adhesive sheets, particularly for purposes of decoration. 3,321,349, 5-23-67, Cl. 156—230.

Niwa Machinery Co.: *See*—
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Niwa, Takato. Expansible hollow core. 3,314,846, 4-18-67, Cl. 161—69.

Niwa, Takenao, and S. Ozaki. Process for converting sulfate pump waste residues into high utility material and means of applying same. 3,349,921, 10-31-67, Cl. 210—509.

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Nix, George F. Photocopy paper package. 3,360,258, 12-26-67, Cl. 271—18.

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Nix, Joseph E.: *See*—
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Nix, Uthal L. Tool holder. 3,311,005, 3-28-67, Cl. 82—36.

Nixdorf, Joachim, to The Federal Republic of Germany (as represented by the Secretary of Defense). Heating device. 3,328,559, 6-27-67, Cl. 219—388.

Nixdorf, Joachim, and A. Burgel, to Federal Republic of Germany, Defense. Tensioning device. 3,323,754, 6-6-67, Cl. 242—147.

Nixon, Alan C.: *See*—
Houff, William H., and Nixon. 3,321,422.
Hunter, Leon, and Nixon. 3,322,725.

Nixon, Albert L. Data processing means having storage circuits. 3,323,715, 6-6-67, Cl. 234—16.

Nixon, Brian G., and R. C. Preston, to Weighload Ltd. Dynamometers. 3,310,981, 3-28-67, Cl. 73—144.

Nixon, Donald R., to Westinghouse Electric Corp. Motor pump unit. 3,347,168, 10-17-67, Cl. 103—87.

Nixon, James: *See*—
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Nixon, James, to Esso Research and Engineering, Co. Calcium acetate lubricant. 3,310,490, 3-21-67, Cl. 252—40.7.

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Nixon, Thomas D.: *See*—
James, Forrest H., Jr., Cockrell, and Nixon. 3,360,019.

Nixon, Virgil H., to Missouri-Rogers Corp. Crusher. 3,295,-773, 1-3-67, Cl. 241—191.

Nixon, Walter B.: *See*—
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Nixon, William G.: *See*—
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Bloch, Herman S., and Nixon. 3,336,410.

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Noack, Robert L., to Radio Corp. of America. Method of making magnetic material with pattern of embedded non-magnetic material. 3,333,333, 8-1-67, Cl. 29—604.

Noack, Robert L., and C. Wentworth, to Radio Corp. of America. Method of forming a pattern. 3,322,871, 5-30-67, Cl. 264—104.

Noakes, Mary: *See*—
Noakes, Roy E. 3,325,187.

Noakes, Roy E., deceased (by M. Noakes, temporary administratrix). Tow hitch construction. 3,325,187, 6-13-67, Cl. 280—493.

Nobbs, Vestal L. Girdle. 3,339,554, 9-5-67, Cl. 128—528.

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Ostrow, Barnet D., and Nobel. 3,305,462.
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Nobile, Luciano, to Ledoga S.p.A. Process for preparing sucrose esters of high molecular weight fatty acids. 3,349,-081, 10-24-67, Cl. 260—234.

Nobile, Luciano, and T. La Noce, to Miles Italiana Derivati Amidi-M-I.D.A. S.p.m. Reaction products of starch with dimethyl sulfoxide and alcohols. 3,309,360, 3-14-67, Cl. 260—233.3.

Nobili, Pietro. Foodstuff washing machine. 3,338,251, 8-29-67, Cl. 134—120.

Noble, Burton A., and A. F. Uhlig, to Owens-Illinois, Inc. Container handling and inspecting apparatus. 3,356,203, 12-5-67, Cl. 198—33.

Noble, David L.: *See*—
Andrews, Douglas R., and Noble. 3,316,536.

Noble, Gardiner A., to Chrysler Corp. Method and apparatus for welding control circuit. 3,358,116, 12-12-67, Cl. 219—110.

Noble, Gardiner A., and J. A. Muir, to Chrysler Corp. Electric switch. 3,320,558, 5-16-67, Cl. 335—147.

Noble, James F.: *See*—
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Noble, John H., to Stone & Webster Engineering Corp. Removal and disposal of radioactive contaminants in mixed ion exchange resins with alkali metal halide. 3,340,200, 9-5-67, Cl. 252—301.1.

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Sosalla, Harry L. 3,302,956.

Noble, Milton L. Apparatus for projecting cylindrical objects as circular images. 3,347,133, 10-17-67, Cl. 88—24.

Noble, Milton L., to General Electric Co. Total internal reflection projection system. 3,357,299, 12-12-67, Cl. 88—24.

Noble, Peter J. W.: *See*—
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Noble, Peter M.: *See*—
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Noble, Ronald M.: *See*—
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Noble, Ruth I. Drop foot and heel guard for bed patients. 3,345,654, 10-10-67, Cl. 5—319.

Noble & Wood Machine Co., The: *See*—
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Tomlinson, William C. 3,305,180.

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Nolan, John L., to Hollister Inc. Drainage pouch for post-surgical use. 3,351,061, 11-7-67, Cl. 128—283.

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Norden, Alexander R., to Murray Mfg. Corp. Tube and pole piece assembly for circuit breakers. 3,344,376, 9-26-67, Cl. 335—240.

Norden, Alexander R., and H. H. Kobryner, to Murray Mfg. Corp. Circuit breaker including a reversible actuator. 3,339,-052, 8-29-67, Cl. 200—172.

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Officer, Lloyd S., and I. D. Caples, to C & O Industries. Knife for removing skin from citrus fruits and the like. 3,344,516, 10–3–67, Cl. 30—24.

Officina Meccanica Erba & C.S.a.S.: *See*—
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Officina Medico-Ortopedica Dott: *See*—
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Offner, Abe, to The Perkin-Elmer Corp. Catadioptric optical system. 3,305,293, 2–21–67, Cl. 350—201.

Offner, Abe, to The Perkin-Elmer Corp. Optical system having cylindrical power. 3,317,267, 5–2–67, Cl. 350—181.

Offner, Abe, to The Perkin-Elmer Corp. Stable cylindrical lens systems. 3,350,056, 12–19–67, Cl. 350—181.

Offner, Franklin F. Differential direct-current amplifier. 3,304,513, 2–14–67, Cl. 330—69.

Offner, Franklin F., to Beckman Instruments, Inc. Recorder multiplier. 3,310,667, 3–21–67, Cl. 235—194.

Offner, Franklin F. Frequency modulation of radiation emitting P–N junctions. 3,312,910, 4–4–67, Cl. 331—94.5.

Offner, Franklin F. Apparatus for controlling the fuel air ratio for internal combustion engines. 3,329,411, 7–4–67, Cl. 261—27.

Offner, Franklin F., and W. T. Liberson. Method of muscular stimulation in human beings to aid in walking. 3,344,792, 10–3–67, Cl. 128—419.

Offray, Claude V., Jr., to Buser Century, Inc. Ribbon dispenser. 3,327,846, 6–27–67, Cl. 206—80.

Offsay, Sam, to Quadri Inc. Display devices. 3,336,686, 8–22–67, Cl. 40—30.

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Savage, George M., and Bradbury. 3,354,951.

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Ptacek, James F., Howard, Offutt, and Patterson. 3,356,992.

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Offutt, William C., to Gulf Research & Development Co. Process for the thermal hydrodealkylation of alkyl hydroxy aromatic compound in the presence of an alkyl aromatic compound. 3,303,222, 2–7–67, Cl. 260—621.

O'Flahavan, James M.: *See*—
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Marzocchi, Alfred, and O'Flahavan. 3,339,357.

O'Flahavan, Lorraine C.: *See*—
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Marzocchi, Alfred, O'Flahavan and L. C. 3,339,357.

Oftedahl, Marvin L., to Monsanto Co. Bis (alkylsulfonyl) ethylenes and process of preparing same. 3,335,188, 8–8–67, Cl. 260—607.

Oftedahl, Marvin L., to Monsanto Co. Method for controlling gram positive bacteria with dichlorophenylosazones. 3,337,397, 8–22–67, Cl. 167—30.

Oftedahl, Marvin L., to Monsanto Co. Substituted benzylidene cyclohexanediones. 3,358,031, 12–12–67, Cl. 260—590.

Oga, Taijiro, H. Ichinokawa, and M. Ito, to Showa Denko Kabushiki Kaisha. Process for producing aromatic nitriles. 3,355,479, 11–28–67, Cl. 260—465.

Ogasawara, Naoyuki, to Nippon Electric Co., Ltd. High frequency circulator comprising a plurality of non-reciprocal ferromagnetic circuits. 3,310,759, 3–21–67, Cl. 333—1.1.

Ogata, Toshimitsu: *See*—
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Ogata, Tsugio, to Kabushiki Kaisha Tokyo Gurafikku Dezainazu. Multiple runnered steerable ski sled. 3,297,335, 1–10–67, Cl. 280—16.

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Ogawa, Shinichiro, to Honeywell Inc. Automatic and manual switching system in an electronic controller. 3,360,661, 12–26–67, Cl. 307—70.

Ogawa, Shinichiro, and I. Ido, to Honeywell, Inc. Measuring system having photoelectric resistor functioning as both a rebalance potentiometer and converter. 3,310,738, 3–21–67, Cl. 324—99.

Ogawa, Shinichiro, K. Shiragaki, and M. Yamamoto, to Honeywell Inc. Current drive type transistorized servo-amplifier device. 3,327,237, 6–20–67, Cl. 330—30.

Ogawa, Shinichiro, and M. Tanaka, to Honeywell, Inc. Automatic and manual change over system for electronic controlling instruments. 3,340,408, 9–5–67, Cl. 307—112.

Ogborn, James M.: *See*—
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Ogburn, Robert D., to General Electric Co. Control and power supply networks for magnetrons. 3,324,273, 6–6–67, Cl. 219—10.55.

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Ogden, Ralph P., and Lawson. 3,344,305.

Ogden, Frederick W., to The Miller Co. Sectional lighting fixture. 3,319,059, 5–9–67, Cl. 240—9.

Ogden, Harold S., to General Electric Co. Sequential starting system for a plurality of motors. 3,317,802, 5–2–67, Cl. 318—102.

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Ogden, James S., to Ashland Oil & Refining Co. Carbonaceous ion exchange materials. 3,345,284, 10–3–67, Cl. 208—44.

Ogden, Joseph, to Engelhard Industries, Inc. Spinnerette. 3,303,531, 2–14–67, Cl. 18—8.

Ogden, Larry M., and B. A. Wise, to General Dynamics Corp. Sonic apparatus. 3,325,858, 6–20–67, Cl. 18—2.7.

Ogden, Ralph P. Method of freeze drying liquid milk products. 3,297,455, 1–10–67, Cl. 99—201.

Ogden, Ralph P., and O. W. Law. Welding flux recovery hopper with magnet. 3,323,647, 6–6–67, Cl. 209—223.

Ogden, Ralph P., and W. P. Lawson, to Ogden Engineering Corp. Apparatus for welding stiffeners to fabricated I-beams. 3,325,625, 6–13–67, Cl. 219—125.

Ogden, Ralph P., and W. P. Lawson, to Ogden Engineering Corp. Tandem drive welding wire feed arrangement for semi-automatic welding equipment. 3,344,305, 9–27–67, Cl. 314—69.

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Ogilvie, Alexander, and B. Laurence, to Laporte Chemicals Ltd. Manufacture of hydrogen peroxide. 3,323,868, 6–6–67, Cl. 23—207.

Ogilvie, Douglas A., to Pierce Auto Body Works, Inc. Apparatus for converting a pickup truck into a side compartmented utility service truck with flip-flop closures. 3,326,595, 6–20–67, Cl. 296—37.

Ogilvie, Frank R., to Bonlard I. Brown. Door structure having torque tube. 3,308,580, 3–14–67, Cl. 49—206.

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Ogle, Claude B., Jr. Plow tail wheel. 3,305,024, 2–21–67, Cl. 172—212.

Ogle, Hugh M. A.-C. switch speed control system for A.-C. motors. 3,307,094, 2–28–67, Cl. 318—341.

Ogle, Ian S., and B. M. Smythe, to The Colonial Sugar Refining Co., Ltd. Fertilizer comprising a salt of a sugar phosphate ester. 3,356,482, 12–5–67, Cl. 71—11.

Ogle, James A., and W. S. Carter, Jr., to Burroughs Corp. High density network simulation apparatus. 3,324,457, 6–6–67, Cl. 340—172.5.

Ogle, James A., Jr., F. C. Hitzeroth, and R. A. Illa, to McGraw-Edison Co. Self-heated bimetal timer. 3,316,832, 5–2–67, Cl. 99—329.

Ogle, Robert W., to Functional Container Corp. (N.A.) Mixing syringe having separate compartments for incompatible medicaments. 3,303,846, 2–14–67, Cl. 128—218.

Ogle, Robert W., to Safti-Vial Corp. Vial. 3,321,098, 5–23–67, Cl. 215—37.

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Ogren, Harvey D., to Honeywell Inc. Accelerometer. 3,302,466, 2–7–67, Cl. 73—516.

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Ogura, Takashi, T. Ueda, and K. Yasuda, to Agency of Industrial Science and Technology. Liquid pressure bulge forming apparatus. 3,350,905, 11–7–67, Cl. 72—28.

Oguri, Yoshiyuki. Rotary wing assembly. 3,321,022, 5–23–67, Cl. 170—160.25.

Oh, Luis L. Three conductor coplanar serpentine-line directional coupler. 3,332,039, 7–18–67, Cl. 333—10.

O'Halloran, Gerald J., L. D. Ferguson, and H. M. Smith, to The Bendix Corp. Time-of-flight mass spectrometer having an accelerating tube with a continuous resistive coating. 3,342,993, 9–19–67, Cl. 250—41.9.

O'Halloran, Rosemary, to Esso Research and Engineering Co. Reaction product of dithiophosphoric acid and dibasic acid anhydride. 3,324,032, 6–6–67, Cl. 252—46.6.

O'Halloran, Rosemary, to Esso Research and Engineering Co. Ashless dithiophosphoric acid derivatives. 3,359,203, 12–19–67, Cl. 252—46.6.

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Ohara, Masao, K. Yamamoto, Y. De Guchi, and K. Endo, to Fujisawa Pharmaceutical Co., Ltd. 6,8-dithiooctanoyl amides and intermediates. 3,308,132, 3–7–67, Cl. 260—294.8.

Ohara, Masao, K. Yamamoto, T. Kamiya, K. Tanaka, A. Sugihara, and M. Ito, to Fujisawa Pharmaceutical Co., Ltd. ω-Halogeno vinyl keto fatty acid esters. 3,347,883. 10–17–67, Cl. 260—408.

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Ohashi, Yasutaka, to Nippon Electric Co., Ltd. Non-linear digital to analogue converter. 3,310,799, 3–21–67, Cl. 340—347.

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O'Herron, John E. Hobby craft device. 3,345,240, 10–3–67, Cl. 161—36.

Ohi, Reiichi, and K. Shirasu, to Fuji Shashin Film Kabushiki Kaisha. Color photographic light-sensitive element containing ultraviolet absorber. 3,352,681, 11–14–67, Cl. 96—84.

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Ohlson, Kurt L., to Aktiebolaget Electrolux. Device for effectively utilizing physical force applied thereto to actuate a control member. 3,318,118, 5–9–67, Cl. 68—24.

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Ohlund, John A. I., to Saab Aktiebolag. Weapon fire simulator. 3,334,425, 8–8–67, Cl. 35—25.

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Ohnacker, Gerhard, to Boehringer Ingelheim G.m.b.H. Novel 5H-dihydrothiopyrano[4,3-]pyrimidines. 3,316,257, 4–25–67, Cl. 260—248.

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Olson, Richard L., to Dike-O-Seal, Inc. Railway car journal box seals and the like. 3,319,969, 5–16–67, Cl. 277—130.

Olson, Richard L., to Dike-O Seal, Inc. Pressurized seal structure for core boxes embodying closed cell elastomeric material. 3,331,610, 7–18–67, Cl. 277—171.

Olson, Richard L., to Dike-O-Seal, Inc. Sealing structures embodying closed cell elastomeric material. 3,355,181, 11–28–67, Cl. 277—180.

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Olson, Roy H. Diabolo type toy device. 3,341,969, 9–19–67, Cl. 46—60.

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Olson, William A., to Chas. Pfizer Co., Inc. Animal feeds containing maltol. 3,338,718, 8–29–67, Cl. 99—2.

Olsson, Curt S., to Aktiebolaget Atomenergi. Device for controlling a control rod in a nuclear reactor. 3,347,748, 10–17–67, Cl. 176—36.

Olsson, Curt S., to Aktiebolaget Atomenergi. Device for operating neutron-absorbing rods in nuclear reactors. 3,359,-172, 12–19–67, Cl. 176—36.

Olsson, Dexter A., and C. W. Eriksson, to Bethlehem Steel Corp. Ultrasonic thickness comparator device. 3,349,608, 10–31–67, Cl. 73—67.8.

Olsson, Erik A. Apparatus for withdrawing and advancing the casting in a continuous casting machine. 3,319,699, 5–16–67, Cl. 164—282.

Olsson, Gustaf E., to Axel Kistner Aktiebolaget. Protective sheath for fever thermometers. 3,315,797, 4–25–67, Cl. 206—16.5.

Olsson, Johan B., to Aktiebolaget Gotaverken. Means for closing of large openings, especially hatch openings in ships. 3,324,817, 6–13–67, Cl. 114—202.

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Olsson, Jons K. A., and S. A. Olsson, to Telefonaktie-bolaget L M Ericsson. Method of writing-in and non-erasing reading of binary information in magnetic ring cores. 3,311,-899, 3–28–67, Cl. 340—174.

Olsson, Jons K. A., and A. K. Bergmann, to North Electric Co. Communication system for connecting subscribers to a multiplex message synthesizing system. 3,337,847, 8–22–67, Cl. 340—152.

Olsson, Olof, and N. Nedeby, to Aktiebolaget Bofors. Guided missile. 3,296,927, 1–10–67, Cl. 89—1.8.

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O'Meara, Thomas R., to Hughes Aircraft Co. Synchronously controlled resonant AC to AC converter. 3,359,480, 12–19–67, Cl. 321—4.

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Omietanski, George M., to Union Carbide Corp. Preparation of hydroxy-endblocked siloxane fluids. 3,309,390, 3–14–67, Cl. 260—448.2.

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Omietanski, George M., and W. G. Reid, to Union Carbide Corp. Siloxane-oxyalkylene block copolymers and process therefor. 3,356,758, 12–5–67, Cl. 260—824.

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O'Neal, George, Jr., to Weltronic Co. Weld override timer. 3,356,820, 12–5–67, Cl. 219—114.

O'Neal, James E., and J. K. and C. W. Gunter, to Gunter & Cooke, Inc. Carding machine operating control means. 3,304,582, 2–21–67, Cl. 19—106.

O'Neal, James E., J. K. and C. W. Gunter, to Gunter & Cooke, Inc. Carding machine air control means. 3,357,062, 12–12–67, Cl. 19—107.

O'Neal, Larry. Inflatable dock seal. 3,303,615, 2–14–67, Cl. 52—2.

O'Neal, Wilbert O., to L W. Menzimer. Plural stack, sequential dispensing, article dispensing apparatus. 3,356,259, 12–5–67, Cl. 221—118.

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O'Neill, Clifford F., and L. J. Corsaro, to General Electric Co. Electric incandescent projection lamp. 3,325,667, 6–13–67, Cl. 313—113.

O'Neill, Cormac G., to The Bendix Corp. Air valve carburetors. 3,333,832, 8–1–67, Cl. 261—39.

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O'Neill, Joseph V., and G. Homanick, to Leyman Corp. Portable drill rig methods and apparatus. Re. 26,284, 10–17–67, Cl. 175—57.

O'Neill, Joseph V., and G. Homanick, to Leyman Corp. Drill string suspension arrangement. 3,299,957, 1–24–67, Cl. 166—77.5.

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McCarter, Arthur W. 3,312,045.

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Ono, Kunio, to Hitachi, Ltd. Nondestructive testers utilizing high-frequency and low-frequency eddy currents to test for surface and sub-surface defects. 3,340,466, 9–5–67, Cl. 324—40.

Ono, Masao, and T. Horiguchi, to Mitsubishi Shipbuilding & Engineering Co., Ltd. Process for recovering sodium carbonate and hydrogen sulfide from spent cooking liquor. 3,337,294, 8–22–67, Cl. 23—63.

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Ono, Naoya, and R. Mori, to Kabushiki Kaisha Hitachi Seisakusko. Variation of capacitance with angular displacement. 3,337,789, 8–22–67, Cl. 321—24.

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Onuma, Giichi, and T. Kurokochi, to Tokyo Shibaura Kenki Kabushiki Kaisha Kawasaki-shi-Japan. Optical reader for perforated records. 3,325,631, 6–13–67, Cl. 235—61.11.

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Goedecke, Fritz, Opel, and Ivens. 3,316,630.

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Openshaw, Harry T., and N. Whittaker, to Burroughs Wellcome & Co. (U.S.A.), Inc. Isomerization of benzo (a) quinolizine derivatives. 3,326,922, 6–20–67, Cl. 260—287.

Openshaw, Harry T., and N. Whittaker, to Burroughs Wellcome & Co. (U.S.A.) Inc. Preparation of homoveratrylamides. 3,337,558, 8–22–67, Cl. 260—287.

Openshaw, Harry T., and N. Whittaker, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method for making benzo (a) quinolizine derivatives. 3,342,825, 9–19–67, Cl. 260—287.

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Opocensky, Willard J., to General Precision, Inc. Screw drive mechanism for moving an article along a rectilinear path independently of irregularities in said screw. 3,337,732, 8–22–67, Cl. 250—52.

Opolsky, Vaclav, to Ceskoslovenska akademie ved. Diffusion vacuum pump. 3,355,094, 11–28–67, Cl. 230—101.

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Oppedahl, Charles A., deceased (by R. A. Oppedahl, administrator), to Collins Radio Co. Radio beam capture circuit for aircraft guidance. 3,355,126, 11–28–67, Cl. 244—77.

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Oppedahl, Charles A. 3,355,126.

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Hattendorf, Edwin R., and Oppedahl. 3,333,795.

Oppel, George U. Aircraft thrust vector control assembly. 3,304,721, 2–21–67, Cl. 60—232.

Oppel, George U. Photoelastic strain gauge with built-in stress pattern. 3,313,204, 4–11–67, Cl. 88—14.

Oppel, John A.: *See*—
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Oppel, John A., and L. E. Ward, to General Electric Co. High voltage electric circuit breaker with means for precisely coordinating the operation of widely spaced components. 3,333,071, 7–25–67, Cl. 200—48.

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Oppenheimer, Edgar D., to Atomic Power Development Associates, Inc. Method and apparatus for remote temperature measurement in a nuclear reactor installation. 3,321,370, 5–23–67, Cl. 176—19.

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Opper, Lincoln I., to Dayco Corp. Vacuum cleaner connector. 3,314,039, 4–11–67, Cl. 339—15.

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Orkney, John C., Jr. and J. C. Apparatus for use in measuring the hydraulic efficiency of fluid machines, such as pumps. 3,350,934, 11–7–67, Cl. 73—168.

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Orr, James E., to Litton Precision Products, Inc. Depressed collector for crossed field travelling wave tubes. 3,325,677, 6–13–67, Cl. 315—39.3.

Orr, James E., to Litton Precision Products, Inc. Frequency stable crossed field device having thermal sensitive means connected between the slow wave structure and sole electrode. 3,359,450, 12–19–67, Cl. 315—3.5.

Orr, James M. R., to S. Smith & Sons (England) Ltd. Heating and/or ventilating apparatus for vehicles. 3,326,110, 6–20–67, Cl. 98—2.

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Ortelli, Aurelio, to Riva Calzoni, S.p.A. Tubular rectilinear guide member for telescopically extensible rods, tubes, shafts and the like. 3,338,642, 8–29–67, Cl. 308—3.

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Orton, Samuel T., Jr., to Jean-Pierre Maupas. Water-extracting device in felt and press section for paper machines. 3,325,351, 6–13–67, Cl. 162—358.

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Osborg, Hans, to Chemirad Corp. Process of making paper using reaction product of polyethyleneimine and polyisocyanate. 3,325,346, 6–13–67, Cl. 162—164.

Osborg, Hans, J. W. Brook, and A. Goldstein, to Chemirad Corp. Process of forming cellulosic paper containing tris-(1-aziridinyl) phospine oxide and polyethylene imine and paper thereof. 3,298,902, 1–17–67, Cl. 162—158.

Osborn, Albert J., to Hotz Mfg. Co. Knockdown container. 3,346,136, 10–10–67, Cl. 217—12.

Osborn, Carroll H., and R. E. Fultz, to Dayco Corp. Flexible hose. 3,313,319, 4–11–67, Cl. 138—121.

Osborn, Carroll H., to Dayco Corp. Hose. 3,329,172, 7–4–67, Cl. 138—122.

Osborn, Daniel C., III: *See*—
Moore, Harwood B., Hoag, and Osborn. 3,313,548.

Osborn, Don R., Jr., to General Motors Corp. Retractable boring bar. 3,296,898, 1–10–67, Cl. 77—58.

Osborn Mfg. Co., The: *See*—
Charvat, Vernon K. 3,353,200.
Ellms, Robert W. 3,311,954.
Ellms, Robert W. 3,328,852.
Hatch, Edmond K., and Miller. 3,347,307.
Miller, Leon F., and Blower. 3,356,132.
Nelson, Brooks E. 3,304,568.
Nelson, Brooks E. 3,312,993.

Osborn, Merritt: *See*—
Bares, Jack A., and Osborn. 3,358,353.

Osborn, Oliver, F. Olstowski, and J. W. Horvath, to The Dow Chemical Co. Method of hot topping using vermicular graphite. 3,308,514, 3–14–67, Cl. 22—212.

Osborn, Paul V., Jr., to National Distillers and Chemical Corp. Variable drive structure for driving a work head with reciprocating cyclical movement. 3,295,380, 1–3–67, Cl. 74—44.

Osborn, Peter E., and C. W. Turek, to A. B. Dick Co. Magnetic character generator. 3,302,179, 1–31–67, Cl. 340—172.5.

Osborn, Rexford H.: *See*—
Hoeptner, Herbert W., and Osborn. 3,334,490.

Osborn, Ronald F.: *See*—
Caywood, James A., De Moss, Fitch, Osborn, and Matous. 3,339,763.

Osborn, Robert O., to E. I. du Pont de Nemours and Co. Conductive film battery. 3,353,999, 11–21–67, Cl. 136—83.

Osborn, Stephen W.: *See*—
Gobran, Riad H., and Osborn. 3,329,659.
Kutch, Ernest L., Osborn, and Wells. 3,337,513.

Osborn, Stephen W., to Thiokol Chemical Corp. Catalytic oxide process. 3,300,454, 1–24–67, Cl. 260—79.7.

Osborn, Stephen W., and G. F. Bulbenko, to Thiokol Chemical Corp. Fluid resistant silicaceous compositions containing poly(epi-sulfide) and impregnation process therefor. 3,342,-770, 9–19–67, Cl. 260—37.

Osborn, Stephen W., E. Broderick, and J. L. Villa, to Thiokol Chemical Corp. Catalytic process for the preparation of vicinal episulfides. 3,347,867, 10–17–67, Cl. 260—327.

Osborn, Stephen W., T. F. Wells III, and E. L. Kutch, to Thiokol Chemical Corp. Zinc or mercury salt catalytic process. 3,359,248, 12–19–67, Cl. 260—79.7.

Osborn, William L.: *See*—
Hopkins, Neil E., and Osborn. 3,299,666.

Osborne, Alan P., to Dunlop Rubber Co. Ltd. Method of splicing the ends of tire tread stock. 3,335,041, 8–8–67, Cl. 156—110.

Osborne, Andrew G., and E. A. Stassin, to Aluminum Co. of America. Container closure. 3,303,955, 2–14–67, Cl. 215—39.

Osborne, Charles D. Air heater utilizing cooking stove heating elements. 3,358,670, 12–19–67, Cl. 126—110.

Osborne, Charles D. Space heater and cooker. 3,358,671, 12–19–67, Cl. 126—110.

Osborne, Fay H., to The Dexter Corp. Paper making apparatus to form paper with a simulated woven texture. 3,322,617, 5–30–67, Cl. 162—296.

Osborne, Fay H., and W. J. Bodendorf, to The Dexter Corp. Tobacco web material. 3,297,039, 1–10–67, Cl. 131—17.

Osborne, Francis P. Clamping tool. 3,304,602, 2–21–67, Cl. 29—275.

Osborne, Fred H., to The Wurlitzer Co. Coin counter. 3,333,-769, 8–1–67, Cl. 235—100.

Osborne, Jack D.: *See*—
Voigt, Robert H., and Osborne. 3,315,244.

Osborne, Jack D., to Aseco, Inc. Electronic smoke detector and fire alarm. 3,314,058, 4–11–67, Cl. 340—228.

Osborne, John S., to Geo Research & Consulting Associates, Inc. Underground storage reservoir for liquids and gases and process for forming the same. 3,331,206, 7–18–67, Cl. 61—.5.

Osborne, Manuel: *See*—
Woods, Allen. 3,347,030.

Osborne, Robert F., J. W. Melville, R. W. Eichler, K. A. Northrup, and J. F. Wirley. Reproducing apparatus. 3,-301,126, 1–31–67, Cl. 88—24.

Osborne, Thomas E., to SCM Corp. Cathode ray tube character generating and display system. 3,336,497, 8–15–67, Cl. 315—18.

Osborne, William A. Self-cleaning router. 3,344,497, 10–3–67, Cl. 29—103.

Osborne, William E., to Olin Mathieson Chemical Corp. Power actuated tool. 3,297,224, 1–10–67, Cl. 227—10.

Osborne, William E., to Olin Mathieson Chemical Corp. Piston-type fastening tool. 3,357,617, 12–12–67, Cl. 227—10.

Osborne, William T., to Carrier Corp. Refrigeration system. 3,299,653, 1–24–67, Cl. 62—115.

Osborne, William T., to Carrier Corp. Steam powered refrigeration systems. 3,303,874, 2–14–67, Cl. 165—32.

Osborne, William T., to Carrier Corp. Heating and cooling system. 3,303,875, 2–14–67, Cl. 165—39.

Osborne, William T., to Carrier Corp. Direct contact heat exchanger. 3,310,103, 3–21–67 Cl. 165—141.

Osborne, William T., to Carrier Corp. Heating and cooling system. 3,326,277, 6–20–67, Cl. 165—62.

Osbourne, Alan: *See*—
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Osburn, Isaac W. and W. E. Pipe or rod cutting tool having a disc type cutting wheel and toggle means to move said wheel in an operative or inoperative position. 3,315,355, 4–25–67, Cl. 30—102.

Osburn, Walter E.: *See*—
Osburn, Isaac W. and W. E. 3,315,355.

Oscar Mayer & Co., Inc.: *See*—
Jensen, Hans A., and Eberman. 3,349,540.
Podebradsky, Everett V., and Maas. 3,353,963.
Seiferth, Oscar E., and Austin. 3,326,699.
Seiferth, Oscar E., Grindrod, Hamm, Goller, and Gifford. 3,322,614.

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Santilli, Arthur A., and Osdene. 3,334,097.
Santilli, Arthur A., and Osdene. 3,336,300.
Santilli, Arthur A., and Osdene. 3,351,659.

O'Searo, Carmella: *See*—
O'Searo, Roy J., and Carmella. 3,355,757.

O'Searo, Roy J., and Carmella. Hairbrush with retractable style-lift. 3,355,757, 12–5–67, Cl. 15—105.

Osepchuk, John M., to Raytheon Co. Electron discharge device wherein electromagnetic waves along the slow wave structure have components transverse to the electron beam and deflect out of phase electrons from the beam. 3,308,331, 3–7–67, Cl. 315—3.6.

Oser, Willem, to Isomet Corp. Electrochemical method for conversion of carbon dioxide. 3,316,163, 4–25–67, Cl. 204—129.

Oser, Zalik: *See*—
Barton, Alfred O., Griffin, Lund, Oser, and Vitrone. 3,309,339.

Oser, Zalik, E. J. Woelfel, and R. Fuhrmann, to Allied Chemical Corp. Crosslinking of polymers. 3,340,245, 9–5–67, Cl. 260—94.9.

Osgood, Edmond R., L. E. Limpel, and R. L. Annis, to Diamond Alkali Co. Preparation of octachlorothiolane. 3,354,179, 11–21–67, Cl. 260—332.5.

Osgood, Jack H.: *See*—
Green, Jack, and Osgood. 3,304,564.

Osgood, Jack H., to North American Aviation, Inc. Apparatus and means for obtaining water from rocks. 3,327,524, 6–27–67, Cl. 73—76.

Osgood, Robert W., to El-Tronics, Inc. Rotary transfer molding machine having rope feed. 3,327,352, 6–27–67, Cl. 18—20.

Osgood, Winthrop B., Jr., and R. S. Petersen, to Sanders Associates, Inc. Modular pressure regulating and transfer valve. 3,340,895, 9–12–67, Cl. 137—596.

O'Shaughnessy, Robert T.: *See*—
Brooks, Lester A., and O'Shaughnessy. 3,318,703.
Brooks, Lester A., and O'Shaughnessy. 3,322,802.

O'Shea, Francis X.: *See*—
Hunter, Byron A., and O'Shea. 3,318,961.

O'Shea, Francis X., to United States Rubber Co. Certain bis (hydroxy-alkylbenzylthio) compounds and method of making same. 3,299,147, 1–17–67, Cl. 260—609.

O'Shea, Francis X., to United States Rubber Co. Bis(3,5-substituted-4-hydroxybenzyl-thio) compounds and methods of making same. 3,310,587, 3–21–67, Cl. 260—609.

O'Shea, Francis X., to United States Rubber Co. Bis[2-hydroxy-3-(alpha, alpha-dimethylbenzyl)-5-methyl phenyl] methane. 3,318,962, 5–9–67, Cl. 260—619.

O'Shea, Francis X., to Uniroyal, Inc. Protection of organic material from oxidative deterioration with bis-(3,5-dihydrocarbyl-4-hydroxybenzyl) sulfoxides. 3,322,649, 5–30–67, Cl. 252—404.

O'Shea, Francis X., to Uniroyal, Inc. Use of certain bis(3,5-substituted-4-hydroxybenzylthio) compounds as antioxidants. 3,330,804, 7–11–67, Cl. 260—45.95.

O'Shea, Francis X., to Uniroyal, Inc. Use of certain bis(hydroxy-alkylbenzylthio) compounds as antioxidants. 3,331,-792, 7–18–67, Cl. 260—2.5.

O'Shea, Francis X., B. Von Schmeling, and M. D. Dudarevitch, to United States Rubber Co. Method of controlling bacteria and fungi. 3,301,748, 1–31–67, Cl. 167—30.

Oshima, Kazuo: *See*—
Tanaka, Katsunobu, Oshima, and Takayama. 3,335,065.

Oshima, Masaomi, to Oshima Musan Co., Ltd. High-frequency core device with relatively movable cores. 3,309,-640, 3–14–67, Cl. 336—135.

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Oshima, Masaomi. 3,309,640.

Oshima, Ryoichiro: *See*—
Hasegawa, Elichi, and Oshima. 3,306,082.

Oshima, Shintaro. Thin film tape recorder. 3,354,447, 11–21–67, Cl. 340—174.1.

Oshima, Shintaro, H. Enomoto, S. Inoue, and Y. Koseki, to Kokusai Denshin Denwa Kabushiki Kaisha. Logical circuit using magnetic cores. 3,303,351, 2–7–67, Cl. 307—88.

Oshima, Shintaro, K. Futami, T. Fukui, T. Kamibayashi, and Y. Komazawa, to Kokusai Denshin Denwa Kabushiki Kaisha. Parametron element formed into a balanced circuit. 3,315,086, 4–18–67, Cl. 307—88.

Oshima, Shintaro, T. Kamibayashi, and K. Komuro, to Kokusai Denshin Denwa Kabushiki Kaisha (a/k/a Kokusai Denshin Denwa Co., Ltd.). Parametron element using conductive wire with ferromagnetic thin-film deposited thereon. 3,348,061, 10–17–67, Cl. 307—88.

Oshva, Eugene, to Burndy Corp. Ribbon cable connector. 3,355,699, 11–28–67, Cl. 339—99.

Osial, Thaddeus A.: *See*—
McAvoy, Bruce R., and Osial. 3,296,405.

Osinski, Alfred L.: *See*—
Kay, John G., and Osinski. 3,295,666.

Osipow, Lloyd I.: *See*—
Dudley, Elizabeth, and Osipow. 3,340,875.
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Osipow, Lloyd I., F. J. Brashear, and W. Rosenblatt, said Osipow, and said Rosenblatt assors. to State of Nebraska, as represented by the Secretary of Agriculture and Inspection. Detergent compositions. 3,305,488, 2–21–67, Cl. 252—117.

Osipow, Lloyd I., F. J. Brashear, and W. Rosenblatt, to Fats and Protein Research Foundation, Inc. Ethers for use in lubricants and hydraulic fluids. 3,344,195, 9–26–67, Cl. 260—611.

Osman, Miklos, A. Novak, I. Csomor, L. Fernbach, and F. Mezei, to Csavarugyar. Method of producing shaped-head screws and tool for carrying out the method. 3,359,-580, 12–26–67, Cl. 10—2.

Osmon, Frank O. K., Jr., to E. I. du Pont de Nemours and Co. Extrusion coating with linear polypropylene and branch polyethylene blend. 3,340,123, 9–5–67, Cl. 156—244.

Osmond, Desmond W. J.: *See*—
Cousens, Richard H., Osmond, and Solomon. 3,298,890.
Cousens, Richard H., Osmond, and Solomon. 3,298,990.

Osmond, Desmond W. J., to Imperial Chemical Industries, Ltd. Polymeric dispersion stabilizers for dispersions of synthetic polymers in organic liquids. 3,317,635, 5–2–67, Cl. 260—881.

Osmond, Desmond W. J., E. S. G. Simpson, and M. J. Waghorn, to Imperial Chemical Industries Ltd. Coating compositions of polymer dispersions in mixtures of high boiling and low boiling liquids. 3,331,801, 7–18–67, Cl. 260—31.2.

Osmose Wood Preserving Co. of America, Inc.: *See*—
Cravens, DuVal, and McGuire. 3,307,362.
Cravens, Du Val, and Philippbar. 3,331,211.

Ospett, Gustav: *See*—
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Oss, George K., D. D. Dunfee, and B. Silver, to Atlantic Research Corp. Frangible motor. 3,331,324, 7–18–67, Cl. 102—49.5.

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Port, William S., and Ostapiak. 3,305,564.

Ostberg, Werner, to Dundee Cement Co. Device for removing clinker from thermocouple probe. 3,322,416, 5–30–67, Cl. 263—33.

Ostborg, Jan N., and R. B. Lurski, to Club Aluminum Products Co. Nesting accessory. 3,358,878, 12–19–67, Cl. 220—97.

Osteen, Mitchell M., to General Electric Co. Method of producing an ultraviolet resistant polycarbonate article. 3,309,220, 3–14–67, Cl. 117—33.3.

Ostendorf, Carl J.: *See*—
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Ostensen, Ralph G., to SCM Corp. Duplicating apparatus. 3,322,031, 5–30–67, Cl. 88—24.

Ostensen, Ralph G., to SCM Corp. Electrostatic printing and developing apparatus. 3,345,925, 10–10–67, Cl. 95—1.7.

Ostensen, Ralph G., to SCM Corp. Sheet feed apparatus. 3,352,-218, 11–14–67, Cl. 95—1.7.

Oster, Bernd: *See*—
Simon, Robert H. M., and Oster. 3,345,430.

Oster, Felix, to Societe de Produits Chimiques d'Auby. Anticaking agent. 3,305,491, 2–21–67, Cl. 252—384.

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Edwards, Margaret M. 3,299,226.
Hubrich, Frederick M. 3,307,255.
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Oster, Thomas H., to Ford Motor Co. Internal combustion engine starting system. 3,303,834, 2–14–67, Cl. 123—179.

Oster, Thomas H. Subaqueous mining. 3,343,877, 9–26–67, Cl. 299—9.

Oster, Werner. Automatic punching machine. 3,343,437, 9–26–67, Cl. 83—533.

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Olsen, Douglas A., and Osteraas. 3,344,670.

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Osterman, James W., to Filters, Inc. Filter and coalescer element. 3,352,423, 11–14–67, Cl. 210—496.

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Ostermann, Milton D. and A. C. 3,322,354.

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Ostermann, Milton D. and A. C. Aggregate processing plant. 3,322,354, 5–30–67, Cl. 241—81.

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Osterreichisch-Amerikanische Magnesit Aktiengesellschaft: *See*—
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Weinrotter, Ferdinand, Muller, Schmidt, Bohler, and Schweighofer. 3,310,559.
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Osterreichische Studiengesellschaft fur Atomenergie G.m.b.H.: *See*—
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Higatsberger, Michael J. 3,350,274.

Osterstrom, Gordon E., to The Welch Scientific Co. Shaft seal with cooling means. 3,332,610, 7–25–67, Cl. 230—116.

Osterwalder, Jean P. F., to Vega Precision Laboratories, Inc. Self-starting synchronous motor. 3,330,975, 7–11–67, Cl. 310—164.

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Ostrander, Robert F. 3,345,865.

Ostrander, Albert A., deceased, by M. D. Ostrander, administrator, R. E. Hart, A. L. Gutierrez, and E. C. Reder. Inflated roof. 3,338,000, 8–29–67, Cl. 52—2.

Ostrander, George W., W. W. Pendleton, to Anaconda Wire and Cable Co. Porous-refractory encapsulant for coils and coil encapsulated therewith. 3,308,414, 3–7–67, Cl. 336—205.

Ostrander, Kenneth A.: *See*—
Foster, George B., and Ostrander. 3,353,098.

Ostrander, Marian D.: *See*—
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Ostrander, Robert F., to Ostradyne, Inc. Vehicle testing device, 3,345,865, 10–10–67, Cl. 73—117.

Ostrander, Walter M., and S. N. Sutherland, to Consolidated Electronics Industries Corp. Rotary stepper switch. 3,358,-251, 12–12–67, Cl. 335—122.

Ostrander, William S., to Carrier Corp. Heating and cooling apparatus and method. 3,322,188, 5–30–67, Cl. 165—2.

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Ostrin, Albert. Rotary incinerator. 3,320,908, 5–23–67, Cl. 110—14.

Ostroff, Arthur, and M. D'Agostino, to Radio Corp. of America. Voltage reference circuit. 3,310,731, 3–21–67, Cl. 323—4.

Ostrofsky, Bernard, and C. B. Parrish, Jr., to Standard Oil Co. Heat exchanger and cleaning means therefor. 3,295,-596, 1–3–67, Cl. 165—84.

Ostrofsky, Bernard, and J. N. Bergman, to Standard Oil Co. Transducer holder. 3,315,521, 4–25–67, Cl. 73—71.5.

Ostrŏm, Gustav B.: *See*—
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Ostrom, William: *See*—
Thompson, Ellis G., Dubbels, and Ostrom. 3,313,629.

Ostrow, Barnet D., and F. I. Nobel. Nickel electroplating bath with additives. 3,305,461, 2–21–67, Cl. 204—49.

Ostrow, Barnet D., and F. I. Nobel. Acid nickel electroplating bath. 3,305,462, 2–21–67, Cl. 204—49.

Ostrow, Barnet D., and F. I. Nobel, to Elechern Corp. Copper cyanide electroplating bath. 3,309,293, 3–14–67, Cl. 204—52.

Ostrowe, Richard C.: *See*—
Riordan, Hugh E., Vento, and Ostrowe. 3,320,819.

Ostrowicz, Joel. Aminoplast molding compounds containing zinc sulfite. 3,320,192, 5–16–67, Cl. 260—17.3.

Ostrowski, Henry J., to Domtar Ltd. Tear tester. 3,319,462, 5–16–67, Cl. 73—96.

Ostrowski, Joseph B., to Olin Mathieson Chemical Corp. Pencil ferrule. 3,344,464, 10–3–67, Cl. 16—108.

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Ostwald, Frits, F. Beuchle, and D. Yarga, to Alfred Teves Maschinen- und Armaturenfabrik KG. Gas-cushion assembly for vehicular suspension systems. 3,311,386, 3–28–67, Cl. 280—6.

Ostwald, Henry, to Dominion Tar & Chemical Co., Ltd. Container closure. 3,319,869, 5–16–67, Cl. 229—39.

Osty, Richard J., and V. M. Morle. Portable drum kit. 3,326,074, 6–20–67, Cl. 84—411.

O'Sullivan, Bryan J., and R. R. Smyth, to Technical Operations Inc. A.C. power system having D.C. driven standby power supply. 3,351,770, 11–7–67, Cl. 307—64.

O'Sullivan, George A., to Consolidated Controls Corp. Resistance thermometer system. 3,299,709, 1–24–67, Cl. 73—362.

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O'Sullivan, Thomas F., J. Kramer, K. Buschmann, H. Meyer, and A. Schweitzer, to The Lummus Co. Cooler inlet device. 3,357,485, 12–12–67, Cl. 165—174.

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Oswald, Alexis A., and K. Griesbaum, to Esso Research and Engineering Co. Dialkyldithiophosphoric acid esters. 3,340,332, 9–5–67, Cl. 260—956.

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Jenkins, Herbert A. H., and Oswald. 3,338,755.

Oswald, Anton, to General Precision, Inc. Method of making a printed circuit board. 3,319,319, 5–16–67, Cl. 29—155.5.

Oswald, Anton H., to Bright Star Industries, Inc. Method and apparatus for manufacture of dry cells. 3,316,127, 4–25–67, Cl. 136—175.

Oswald, Hendrikus J.: *See*—
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Oswald, Hendrikus J., and E. Turi, to Allied Chemical Corp. Stabilized halogen-containing olefin polymer compositions and melamine pyrophosphate stabilizers therefor. 3,331,808, 7–18–67, Cl. 260—45.8.

Oswald, Norman D.: *See*—
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Oswald, Robert A. Film magazine. 3,295,427, 1–3–67, Cl. 95—12.

Oswalt Industries, Inc.: *See*—
Tarpley, Raymond M. 3,321,035.

Oswalt, J. B., Jr. Package and holder for light bulbs. 3,360,123, 12–26–67, Cl. 206—65.

Osweiler, Paul L., to Price Bros. Co. Tapping saddle for prestressed concrete pipe. 3,338,601, 8–29–61, Cl. 285—197.

Oswin, Harry G., to Leesona Corp. Non-porous hydrogen diffusion fuel cell electrodes. 3,337,368, 8–22–67, Cl. 136—86.

Oswold, Oluf G., to Bausch & Lomb Inc. Scanning light spot projector and coupled recording device for visual field testing. 3,317,268, 5–2–67, Cl. 351—30.

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Otani, Takao, N. Muto, S. Miyakawa, K. Ito, and N. Uno, to Asahi Kogaku Kogyo Kabushiki Kaisha and Nippon Denki Kabushiki Kaisha. Camera shutter mechanism. 3,336,850, 8–22–67, Cl. 95—10.

Otehall Ltd.: *See*—
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Othmer, Donald F. Method for cooling volatile liquids. 3,306,346, 2–28–67, Cl. 165—1.

Othmer, Donald F. Process for the refining of sugar with two or more solvents. 3,325,308, 6–13–67, Cl. 127—63.

Othmer, Donald F. Method for producing pure water from sea water and other solutions by flash vaporization and condensation. 3,329,583, 7–4–67, Cl. 203—10.

Otis, Charles L., and B. J. Osak, to Chrysler Corp. Process for preparing sheet metal surfaces with dry lubricant coatings. 3,297,469, 1–10–67, Cl. 117—49.

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Overby, Theodore A. Gate assembly. 3,298,134, 1-17-67, Cl. 49—394.
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Overmars, Henricus G. J., to International Lead Zinc Research Organization, Inc. Production of polyurethane foams using arylleadtriester catalysts. 3,324,054, 6-6-67, Cl. 260—2.5.
Overment, Alfred P. H. Urinary drainage apparatus. 3,312,221, 4-4-67, Cl. 128—275.
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Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Square wave generator employing symmetrical, junctionless threshold-semiconductor and capacitor in series circuit devoid of current limiting impedances. 3,327,137, 6-20-67, Cl. 307—88.5.
Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Analog-to-digital converter employing semiconductor threshold device and differentiator circuit. 3,327,302, 6-20-67, Cl. 340—347.
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Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Heat responsive control system. 3,343,004, 9-19-67, Cl. 307—88.5.
Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Moisture responsive control system. 3,343,075, 9-19-67, Cl. 323—94.
Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Pressure responsive control system. 3,343,076, 9-19-67, Cl. 323—95.
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Owen, Charles E., to International Business Machines Corp. Analog sample and hold circuit. 3,351,837, 11-7-67, Cl. 320—1.
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Pace Corp.: *See*—
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Pace, David E. Reclining chair. 3,317,241, 5–2–67, Cl. 297—285.

Pace, Henri, to Fabriques Reunies de Lampes Electriques. Method of filling electric incandescent lamps, discharge tubes or the like with gas and of sealing the same. 3,311,-439, 3–28–67, Cl. 316—24.

Pace, Henry A., to Goodyear Tire & Rubber Co. Liner for pneumatic tire. 3,299,934, 1–24–67, Cl. 152—354.

Pace, Henry A., to The Goodyear Tire & Rubber Co. Solution of the reaction product of a linear polycarbonate, an organic diisocyanate and water. 3,312,653, 4–4–67, Cl. 260—30.8.

Pace, Herbert D., Jr.: *See*—
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Pace Laboratories, Inc.: *See*—
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Pace, Leland A. Shell crimper. 3,313,203, 4–11–67, Cl. 86—41.

Pace Mfg. Co.: *See*—
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Pace, Nevlin C. Solid-state two-way radio switching system application. 3,339,140, 8–29–67, Cl. 325—21.

Pace, Thomas M., to St. Regis Paper Co. Multiple container package. 3,303,929, 2–14–67, Cl. 206—65.

Pace, Virgil, Sr. Apparatus for renovating windshield wiper blades. 3,341,976, 9–19–67, Cl. 51—102.

Pacela, Allan F., to Universal Match Corp. Pneumograph. 3,347,223, 10–17–67, Cl. 128—2.1.

Paces, Jan A., and W. R. Opie, to American Metal Climax, Inc. Copper- zirconium-vanadium alloys. 3,330,653, 7–11–67, Cl. 75—153.

Pacheco, Francisco, to Spillpruf Corp. Tank level indicator. 3,328,789, 6–27–67, Cl. 340—224.

Pacheco, Henri: *See*—
Pillon, Daniel, Pacheco, and Cronenberger. 3,357,883.

Pachmayr, Frank A., to Pachmayr Gun Works, Inc. Gun holding tray. 3,329,278, 7–4–67, Cl. 211—64.

Pachmayr Gun Works, Inc.: *See*—
Pachmayr, Frank A. 3,329,278.

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Pachter, Irwin J., and J. W. Wilson, to Smith Kline & French Laboratories. Trifluoromethyl substituted -aminophenyl ketimines. 3,313,852, 4–11–67, Cl. 260—566.

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Pacific Kelp Co. Ltd.: *See*—
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Pacific Press & Shear Corp.: *See*—
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Pacific Vegetable Oil Corp.: *See*—
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Pacific-Western Materials, Inc.: *See*—
Glover, Sheldon W. 3,340,964.

Paciorek, Kazimiera J. L., to United States of America, Navy. Linear substituted phosphonitrilic derivatives. 3,317,595, 5–2–67, Cl. 260—551.

Paciorek, Kazimiera J. L., and R. H. Kratzer, to American Potash & Chemical Corp. Process for the production of cyclic phosphonitriles. 3,297,751, 1–10–67, Cl. 260—551.

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Rieth, Harold F. 3,356,972.
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Weber, Donald R. 3,325,601.
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Sterling, Howard T. 3,321,608.
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Packett, Marvin A., and L. Romanzi, Jr., to General Motors Corp. Guide roller assembly. 3,301,610, 1-31-67, Cl. 308—3.8.
Packman, Gordon, and J. L. Kearney, to United Kingdom Atomic Energy Authority. Refuelling machines for gas cooled nuclear reactors. 3,300,389, 1-24-67, Cl. 176—32.
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Padberg, Louis R., Jr., to United States of America, Navy. Visual and acoustic energy generator for underwater use. 3,351,901, 11-7-67, Cl. 340—12.
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Paddison, Eric: *See*—
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Paddock, Alvin F., and F. C. Summers, to Cook Electric Co. Multiple station protector. 3,345,542, 10-3-67, Cl. 317—116.
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Paden, Dale D. Chain pipe wrench. 3,302,497, 2-7-67, Cl. 81—65.
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Paderes, Andrew, to Ford Motor Co. Hydrokinetic torque converter with overdrive gearing. 3,354,746, 11-28-67, Cl. 74—688.
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Padilla, Andrew A. Warning device. 3,318,279, 5-9-67, Cl. 116—63.
Padovani, Dominique R. Projecting and catching device with resilient net. 3,342,491, 9-19-67, Cl. 273—96.
Padovani, Pietro, to I.S.A.P., S.p.a. Baskets, panniers, bowls, and the like. 3,302,679, 2-7-67, Cl. 150—48.
Padovani, Pietro, to I.S.A.P., S.p.A. Tray made of thin sheeting with cavities to receive fruit or round objects. 3,306,484, 2-28-67, Cl. 217—26.5.
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Paerse, Cyril. 3,330,708.
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Paganini, Valentine, by decree of distribution to L. Grenko, L. Vergo, R. Wait, A. Parent, and J. Byers. Drag saw. 3,344,821, 10-3-67, Cl. 143—135.
Pagano, Alfred H., and L. Spiegler, to E. I. du Pont de Nemours and Co. Process for purifying a phenylenediamine. 3,345,413, 10-3-67, Cl. 260—582.
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Page, John S., Jr. Tubing and annulus pressure responsive and retrievable valve. 3,332,497, 7-25-67, Cl. 166—224.

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Paget, Win W. Rocket projectile. 3,349,708, 10-31-67, Cl. 102—49.3.
Paglee, Mario R. Nursing bottle holder. 3,298,649, 1-17-67, Cl. 248—103.
Paglee, Mario R., and R. W. Capron, to United States of America, Navy. Infrared detection system for use in early stages of missile launching. 3,320,420, 5-16-67, Cl. 250—83.3.
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Paillet, Robert, to Societe Les piles Wonder. 3,348,977, 10-24-67, Cl. 136—133.
Pailloz, George J., to United States of America, Army. Perforated tape control system for low altitude targets and target missiles. 3,346,215, 10-10-67, Cl. 244—3.15.
Paine, Bud A., and G. Soulakis, Jr., to Spectrol Electronics Corp. Electric switch having a rotor with a resiliently deformable detent beam member. 3,300,594, 1-24-67, Cl. 200—11.
Paine, David L., to Honeywell Inc. Control apparatus. 3,339,420, 9-5-67, Cl. 74—5.
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Paine, William A., II, and L. R. Bauscher. Voltage regulator. 3,296,516, 1-3-67, Cl. 320—35.
Painter, Delbert J., to General Electric Co. Automatic washing machine having means to cool down the wash water. 3,301,023, 1-31-67, Cl. 68—12.
Painter, Giles W., and H. J., to Lockheed Aircraft Corp. Transient synthesis method and apparatus. 3,345,864, 10-10-67, Cl. 73—71.6.
Painter, Giles W., and W. B. Brewer, to Lockheed Aircraft Corp. Force and moment transducer. 3,358,257, 12-12-67, Cl. 338—5.
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Pairotto Man-Nen-Hitsu Kabushiki Kaisha: *See*—
Takahashi, Ichiro, Watanabe, and Wada. 3,336,150.
Paish, Harold P. S., H. L. Dagwell, and P. J. Anley, to Henry Sykes Ltd. Centrifugal pumps. 3,296,973, 1-10-67, Cl. 103—113.
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Paksaer, Serge, to The Rauland Corp. Impaction process of forming thermionic cathode. 3,342,636, 9–19–67, Cl. 117—223.

Pala, Gianfranco, to Instituto de Angeli S.p.A. Esters of piperazine 1,4-diethanol. 3,338,902, 8–29–67, Cl. 260—268.

Palac, Kazimir, to Motorola Inc. Apparatus for cleaning the elements of a cathode ray tube. 3,323,854, 6–6–67, Cl. 316—1.

Palacios, Amando. Bubble balancing machine to balance tires; tire balancing plate. 3,349,626, 10–31–67, Cl. 73—487.

Palama, Inc.: *See*—
Fritz, Lawrence J. 3,329,289.

Palasky, Ervin C.: *See*—
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Palatinus, Anthony C. Wide range wide and narrow band direct indicating analyzer. 3,304,494, 2–14–67, Cl. 324—77.

Palatinus, Anthony C. Total independent side-band signal test and response analysis system. 3,337,804, 8–22–67, Cl. 325—133.

Palatinus, Anthony C. Intermodulation distortion test set for independent sideband transmitters. 3,360,729, 12–26–67, Cl. 325—133.

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Palchak, Robert J. F., to Olin Mathieson Chemical Corp. Method for the preparation of allyl decarborane. 3,299,-144, 1–17–67, Cl. 260—606.5.

Palchik, David, and R. B. Knust, to Combustion Engineering, Inc. Steam generator organization. 3,307,523, 3–7–67, Cl. 122—406.

Palella, Gloria. Drapery and drapery hanging device. 3,322,-182, 5–30–67, Cl. 160—344.

Palen, Richard L., and R. L. Zubko, to Clark Equipment Co. Container support apparatus for truck frame. 3,342,522, 9–19–67, Cl. 296—35.

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Palermo, James J., R. P. Bonazoli, R. F. Scoledge, and E. G. Audesse, to Sylvania Electric Products, Inc. Electric lamp with tubular body and light transmitting closure having over-lapping flange seal. 3,321,662, 5–23–67, Cl. 313—315.

Palethorpe, George, to Monsanto Co. Halogenated telomers of tri-substituted phosphates. 3,318,978, 5–9–67, Cl. 260—928.

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Palfreyman, Donald H., to Fabreeka Products Co. Shock-reducing pad for travelling crane rails. 3,335,955, 8–15–67, Cl. 238—283.

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Keenan, John G., and Palfreyman. 3,296,804.
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Pall, David B., to Pall Corp. Wire mesh filter element with anchoring rim. 3,332,557, 7–25–67, Cl. 210—495.

Pall, David B., and R. Ray, to Pall Corp. Woven wire mesh. 3,327,866, 6–27–67, Cl. 210—499.

Pall, David B., L. Seawert, and J. F. Campolong, to Pall Corp. Fluid line connections. 3,336,055, 8–15–67, Cl. 285—87.

Pall, David B., and B. F. Silverwater, to Pall Corp. Filter unit having filter elements in series and in reserve. 3,344,-923, 10–3–67, Cl. 210—90.

Pall, David B., and C. A. Keedwell, to Pall Corp. Fluid-permeable fibrous multilayer materials and process of making the same. 3,353,682, 11–21–67, Cl. 210—505.

Pallach, Walter, to Hauni-Werke Korber & Co., KG. Method and apparatus for treating cigar fillers. 3,307,559, 3–7–67, Cl. 131—20.

Pallach, Walter, and W. Thiele, to Hauni-Werke Korber & Co., K.G. Device for conveying the wrapper in cigar manufacture. 3,340,878, 9–12–67, Cl. 131—105.

Pallam Development Corp.: *See*—
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Palle, Robert A., Jr.: *See*—
Palle, Robert A., Sr., A. F. Palle, and R. A. Palle, Jr. 3,346,169.

Palle, Robert A., Sr., A. F. Palle, and R. A. Palle, Jr. Container. 3,346,169, 10–10–67, Cl. 229—37.

Palle, Robert J., Sr. Rotary-die stripping mechanism. 3,338,-124, 8–29–67, Cl. 83—152.

Palleon Electronics Ltd.: *See*—
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Pallinger, Josep, to Waagner-Biro Aktiengesellschaft. Method and apparatus for separating suspended particles from gases. 3,339,344, 9–5–67, Cl. 55—90.

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Pallis, Stephen, and J. Bilett, to Elliott Brothers (London) Ltd. Group thrust compensator. 3,310,949, 3–28–67, Cl. 60—243.

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Palm, Bengt A., to Alfa-Laval AB. Apparatus for continuous and sterile filling of liquids into containers. 3,329,079, 7–4–67, Cl. 99—252.

Palm, Bengt A., to Aktiebolaget Separator. Method for sterilising the filling pipe of a filling machine. 3,359,062, 12–19–67, Cl. 21—56.

Palm, Bernhard A., to Buck Mfg. Co. Magnetic drill mount with base magnet having enlarged outer pole areas. 3,342,-089, 9–19–67, Cl. 77—59.

Palm, Christof: *See*—
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Palm, Floyd R., Jr., to National Lock Co. Carton for storing and loading merchandise display cards. 3,313,407, 4–11–67, Cl. 206—65.

Palm, James M., to Rockford Engineered Products Co. Picture and mirror hanging hardware. 3,298,655, 1–17–67, Cl. 248—498.

Palm, Joseph A. Shroud guard. 3,318,277, 5–9–67, Cl. 114—102.

Palm Oil Recovery, Inc.: *See*—
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Palm, Richard A., H. H. W. Ohse, H. H. O. Cherdron, and F. W. A. G. K. Korte, to Shell Oil Co. Nitrogen-containing polymeric products, their preparation and use. 3,336,-265, 8–15–67, Cl. 260—78.3.

Palmai, Robert, to Kralinator Filters Ltd. Method of producing plastics fiber filters. 3,304,356, 2–14–67, Cl. 264—137.

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Palmberg, Herbert G., and D. G. Jackson, to Palmberg Construction Co. Centrifugal dredge pump. 3,318,254, 5–9–67, Cl. 103—114.

Palmentiero, Anthony D. Electrical wiring fault detector including circuit means to vary the brilliance of selected lamp indicators. 3,348,138, 10–17–67, Cl. 324—51.

Palmer, Alfred L., and H. G. Anderson, to General Electric Co. Lamp bulb coating apparatus. 3,324,824, 6–13–67, Cl. 118—47.

Palmer, Ansell W., to General Electric Co. Switching device for meters of an automatic meter reading system. 3,328,-732, 6–27–67, Cl. 335—205.

Palmer, Arnold, Enterprises Inc.: *See*—
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Palmer, Arthur J.: *See*—
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Palmer, Burton M.: *See*—
Smucker, Clayton A., Rigby, Klein, and Palmer. 3,356,-565.

Palmer, Charles E., to Monsanto Co. Method and apparatus for folding synthetic plastic sheet material. 3,301,143. 1–31–67, Cl. 93—36.

Palmer, Charles E., to Monsanto Co. Container. 3,317,109, 5–2–67, Cl. 229—5.5.

Palmer, Charles E., to Monsanto Co. Container with folded body of curvilinear cross section. 3,317,110, 5–2–67, Cl. 229—55.

Palmer, Curtiss B. Continuous cutting and gathering mechanism for a continuous mining machine. 3,328,087, 6–27–67, Cl. 299—67.

Palmer, Dale A., C. E. Read, and T. R. Sanders, to Monroe Auto Equipment Co. Shock absorber head construction. 3,329,241, 7–4–67, Cl. 188—100.

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Palmer, David A., to Hercules Inc. Preparation of cellular polyolefins. 3,341,481, 9–12–67, Cl. 260—2.5.

Palmer, Dennis G., and K. L. Merther, to Eagle Engineering Co. Ltd. Refuse vehicle. 3,317,067, 5–2–67, Cl. 214—519.

Palmer, Donald G. Suspended shelving. 3,340,829, 9–12–67, Cl. 108—149.

Palmer, Earl W., and R. B. L. Jones, to Anaconda American Brass Co. Vacuum sealing plug. 3,358,869, 12–19–67, Cl. 220—24.5.

Palmer, Francis C., to Fairey Engineering Ltd. Servo system with main and standby channels. 3,314,334, 4–18–67, Cl. 91—438.

Palmer, Frank T. Dough sheet forming apparatus. 3,326,144, 6–20–67, Cl. 107—12.

Palmer, Gaylord M.: *See*—
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Palmer, George L. Dispensing container. 3,319,854, 5–16–67, Cl. 225—23.

Palmer, George V. Ambulatory typewriter apparatus having only one driving means. 3,353,645, 11–21–67, Cl. 197—2.

Palmer, George W., to Light's London Ltd. Workholders for use in apparatus for guiding a workholder relative to a tool. 3,344,759. 10–3–67, Cl. 112—2.

Palmer, George W., to Light's London Ltd. Apparatus for guiding a workholder relative to a tool. 3,345,964, 10–10–67, Cl. 112—2.

Palmer, Gordon: *See*—
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Palmer, Harold D.: *See*—
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Palmer, Harry E., to Golden Arrow Mfg. Ltd. Reciprocating pump pistons. 3,339,834, 9–5–67, Cl. 230—172.

Palmer, Henry F., W. J. Stoner, and N. Feld, to Jay, Feld & Co. Ltd. Luggage. 3,298,479, 1–17–67, Cl. 190—51.

Palmer, Howard B., F. E. Davis, and J. T. Gresham, to Kinberly-Clark Corp. Apparatus for embossing multi-ply paper sheets. 3,323,983, 6–6–67, Cl. 162—362.

Palmer, Inc.: *See*—
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Palmer, James R., and A. Z. Richards, Jr. Salt harvesting apparatus and method. 3,306,419, 2–28–67, Cl. 198—7.

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Palmer, Leon E., to International Business Machines Corp. Repeat mechanism for printing device. 3,339,695, 9–5–67, Cl. 197—17.

Palmer, Leon E., J. O. Schaefer, and R. J. Young, to International Business Machines Corp. Encoder. 3,324,985, 6–13–67, Cl. 197—16.

Palmer, Leonard S., and D. H. Smart, to Communications Patents Ltd. Wired broadcasting systems and apparatus therefor. 3,341,652, 9–12–67, Cl. 178—5.2.

Palmer, Lewis E., to Union Insulating Co., Inc. Nail-up bracket for wiring boxes. 3,345,029, 10–3–67, Cl. 248—300.

Palmer, Lewis E., to Union Insulating Co. Molded-insulation electrical box having integral spacer lugs. 3,353,701, 11–21–67, Cl. 220—3.5.

Palmer, Lynn M. Time controlled distributor valve means. 3,319,655, 5–16–67, Cl. 137—624.18.

Palmer, Michael J.: *See*—
Blanchard, Allan F., and Palmer. 3,320,204.

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Vogel, Charles B., Lamb, and Palmer. 3,303,460.

Palmer, Nigel I., to Leesona Corp. Fuel cell system. 3,321,-333, 5–23–67, Cl. 136—86.

Palmer, Nigel L., to Leesona Corp. Fuel cell unit. 3,321,-334, 5–23–67, Cl. 136—86.

Palmer, Norbert J., to Monogram Industries, Inc. Pump and filter apparatus for a chemical toilet. 3,343,178, 9–26–67, Cl. 4—115.

Palmer, Oscar C., Sr. Expansible cooler pad. 3,304,069, 2–14–67, Cl. 261—94.

Palmer, Peter J., to Parke, Davis & Co. Cyclopropa-androstenone compounds. 3,308,137, 3–7–67, Cl. 260—397.4.

Palmer, Peter J., to Parke, Davis & Co. Cyclopropa-androstene compounds. 3,308,138, 3–7–67, Cl. 260—397.5.

Palmer, Peter J., to Parke, Davis & Co. Cyclopropa-androstanone compounds. 3,308,139, 3–7–67, Cl. 260—397.4.

Palmer, Raymond J.: *See*—
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Palmer, Reed A., to Robertshaw Controls Co. Water mixing valve assembly. 3,339,881, 9–5–67, Cl. 251—58.

Palmer, Reed A., to Robertshaw Controls Co. Pneumatic actuator and parts therefor or the like. 3,358,566, 12–19–67, Cl. 92—9.

Palmer, Rex P.: *See*—
Clark, Keith J., Palmer, and Turner-Jones. 3,316,226.

Palmer, Richard L. Attachment for a telescopic sight. 3,315,-362, 4–25–67, Cl. 33—50.

Palmer, Robert B., to United States of America, Atomic Energy Commission. Light spot apparatus. 3,345,120, 10–3–67. Cl. 350—6.

Palmer, Robert E., to Palmer, Inc. Wheel bearing. 3,309,-155, 3–14–67, Cl. 308—191.

Palmer, Robert W. and F. N. Wilson, to Fisons Horticulture Ltd. Method of making a granulated peat fertilizer. 3,307,934, 3–7–67, Cl. 71—24.

Palmer, Roy L. Fish hook device. 3,353,819, 11–21–67, Cl. 269—254.

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Palmer, Rundlette K. Musical instrument and amplification system. 3,296,916. 1–10–67, Cl. 84—1.

Palmer, Russell A.: *See*—
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Palmer, Warren G., R. K. Houston, W. J. Fowler, and R. J. Billett, to FMC Corp. Color monitor which measures deviations from D.C. reference. 3,335,286, 8–8–67, Cl. 250—226.

Palmer, William A., to W. A. Palmer Films, Inc. Film magazine. 3,318,548, 5–9–67, Cl. 242—55.13.

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Silver, Edward E., and Palmer. 3,330,018.

Palmerone, Joseph. Oil sender and safety switch. 3,305,-651, 2–21–67, Cl. 200—83.

Palmer-Persen, David, to En-Power Co., Inc. Combination battery and recharger. 3,360,708, 12–26–67, Cl. 320—2.

Palmers, Hilbert: *See*—
Moerkens, Jozef C., and Palmers. 3,324,349.

Palmisano, Rocco R., to United States of America, Army. Fluid vortex oscillator. 3,311,120, 3–28–67, Cl. 137—1.

Palmiter, Donald R., and E. R. Wilkening, to Elgin Sweeper Co. Side broom position indicator. 3,353,199, 11–21–67, Cl. 15—87.

Palmquist, Carl W.: *See*—
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Palmquist, Carl W., to Dynamics Corp. of America. Straight line adjustable diffuser. 3,295,432, 1–3–67, Cl. 98—40.

Palmquist, Marvin E., and A. C. Haggstrom, to Cherry Valley Mfg. Corp. Photographic enlarger and printer. 3,322,029, 5–30–67, Cl. 88—24.

Palopoli, Frank P.: *See*—
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Pals, Raimond, to FMC Corp. Alkali metal tripolyphosphate product. 3,309,174, 3–14–67, Cl. 23—107.

Pals, Raimond, to FMC Corp. Sodium tripolyphosphate product. 3,322,493, 5–30–67, Cl. 23—106.

Pals, Raimond, to FMC Corp. Sodium tripolyphosphate. 3,360,342, 12–26–67, Cl. 23—293.

Palsak, Andrew M., to Koppers Co., Inc. Furnace for heating scrap metal. 3,336,020, 8–15–67, Cl. 266—5.

Palson, Richard C. J., to Wismar Packaging Corp. Display box and wire hinge for use therewith. 3,207,151, 1–10–67, Cl. 206—45.23.

Palson, Richard C. J., to International Packaging Corp. Display box having wire hinge. 3,338,391, 8–29–67, Cl. 206—45.23.

Palson, Richard C. J., A. L. Gelardi, and G. Mathus, to Data Packaging Corp. Reel case with rotatable lock. 3,349,898, 10–31–67, Cl. 206—52.

Paluka, Charles F., and R. L. Bryant, to Crane Co. Aircraft spoiler actuator and control system. 3,339,866, 9–5–67, Cl. 244—113.

Palumbo, Anthony J.: *See*—
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Palumbo, Anthony J., and J. G. Ford, to Westinghouse Electric Corp. Treated cellulosic material and electrical apparatus embodying the same. 3,324,222, 6–6–67, Cl. 174—17.

Palumbo, George F.: *See*—
Nessamar, Alvin A., and Palumbo. 3,319,325.

Palvarini, Attilio, and A. Bresciani, to Snia Viscosa Società Nazionale Industria Applicazioni Viscosa S.p.A. Process for the spinning of the crystalline polymer of vinyl chloride. 3,327,037, 6–20–67, Cl. 264—184.

Palvarini, Attilio, A. Parentela, and S. Caporale, to Snia Viscosa—Società Nazionale Industria Applicazioni Viscosa S.p.A. Polymerization of alpha-olefins in the presence of $TiCl_3$, % Al Cl_3, alkali metal and an alkyl phosphoramide of sulfuric amide. 3,342,793, 9–19–67, Cl. 260—93.7.

Palvarini, Attilio, E. Horak, and F. Milizia, to Snia Viscosa S.p.A. Societa Nazionale Industria Applicazioni Viscosa S.p.A. Formaldehyde-propylene graft copolymers and process for their synthesis. 3,352,945, 11–14–67, Cl. 260—897.

Palyi, Leslie, to Toronto Grinding & Milling Machinery Ltd. Pulverizer. 3,322,353, 5–30–67, Cl. 241—49.

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Papesch, Viktor, to G. D. Searle & Co. 7-ureido-2,4-dioxo-1,2,3,4,5,6-hexahydropyrido[2,3-d]-pyrimidines. 3,296,447, 1–3–67, Cl. 260—256.4.

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Papp, Michael W., to The Warner & Swasey Co. Turning tool. 3,354,764, 11–28–67, Cl. 82—24.

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Pappo, Raphael, to G. D. Searle & Co. Process and intermediates for manufacture of 16-oxa steroids. 3,309,383, 3–14–67, Cl. 260—343.3.

Pappo, Raphael, to G. D. Searle & Co. Process and intermediates for manufacture of 19-norsteroids. 3,318,907, 5–9–67, Cl. 260—326.5.

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Pappo, Raphael, to G. D. Searle & Co. 3-(optionally substituted)amino-estra-1,3,5(10),8(9),14-pentane-17-ones and derivatives thereof. 3,325,481, 6–13–67, Cl. 260—239.5.

Pappo, Raphael, to G. D. Searle & Co. 2-alkyl-2-(optionally-substituted) amino-1-naphthyliden ethyl-cyclopentane-1-3-diones, 3-(optionally-substituted) amino-14-hydroxyestra-tetraen-17-ones corresponding and derivatives thereof. 3,337,542, 8–22–67, Cl. 260—240.

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Papst, Hermann. Electric motor and bearing support. 3,307,057, 2–28–67, Cl. 310—90.

Papst, Hermann. Boundary layer control. 3,319,593, 5–16–67, Cl. 114—67.

Papst, Hermann. Refrigerator with transformer means. 3,330,131, 7–11–67, Cl. 62—455.

Papst, Hermann. Swash-plate mechanism for internal combustion engine. 3,333,478, 8–1–67, Cl. 74—60.

Papst, Hermann. Boundary layer control. 3,346,235, 10–10–67, Cl. 253—39.15.

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Papst, Hermann. Quiet-running electric motor. 3,353,046, 11–14–67, Cl. 310—214.

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Paquet, Jean L., to Aluminium Laboratories Ltd. Treating of electrolytic aluminum reduction cell gases to recover fluorine values. 3,322,659, 5–30–67, Cl. 204—67.

Paquette, Cyril D., to Taylor & Gaskin, Inc. Automobile frame stacker. 3,310,183, 3–21–67, Cl. 214—6.

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Paquette, Leo A., to The Upjohn Co. 2-tertiary aminoalkyl-2-azabicyclo[3.2.2]-6-nonenes and process for their preparation. 3,303,194, 2–7–67, Cl. 260—247.2.

Paquette, Leo A., to The Upjohn Co. 1-substituted-2-(aminooxymethyl) benzimidazoles and the corresponding 2-alkylideneaminooxymethyl intermediates therefor. 3,313,824, 4–11–67, Cl. 260—309.2.

Paquette, Leo A., to The Upjohn Co. Bis(2-aminooxyethyl) sulfones. 3,316,299, 4–25–67, Cl. 260—583.

Paquette, Leo A., to The Upjohn Co. 5-(-2-aminooxyethyl)-10,11-dihydro-5H-dibenz[b,f]azepines. 3,317,515, 5–2–67, Cl. 260—239.

Paquette, Leo A., to The Upjohn Co. Diazatricyclododecanes and their preparation. 3,318,899, 5–9–67, Cl. 260—293.

Paquette, Leo A., to The Upjohn Co. Certain 3-dimethylamino-octahydroazocine compounds and their preparation. 3,320,238, 5–16–67, Cl. 260—239.

Paquette, Leo A., to The Upjohn Co. Organic compounds and processes. 3,321,471, 5–23–67, Cl. 260—243.

Paquette, Leo A., to The Upjohn Co. Diazatricyclododecanes and their preparation. 3,321,482, 5–23–67, Cl. 260—293.

Paquette, Leo A., to The Upjohn Co. Organic compounds. 3,347,857, 10–17–67, Cl. 260—243.

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Stoner, Arthur M., Paquin, and Schneider. 3,302,427.

Paquot, Charles, R. Perron, and A. Mathieu, to Etablissement Public Centre National de la Recherche Scientifique. Apparatus for recording and regulating temperature during differential thermal analysis. 3,314,279, 4–18–67, Cl. 73—15.

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Paradis, Leo P., and W. J. Hall, to Monsanto Co. Graft blend of diene rubber polymeric compositions having improved toughness. 3,354,108, 11–21–67, Cl. 260—31.4.

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Paradiso, Joe: *See*—
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Kielsmeier, Elwood W., and Paynter. 3,306,754.

Paynter, William D., and F. C. Olson, to Oscar Mayer & Co., Inc. Preparation of packaged sliced dry sausage. 3,329,510, 7–4–67, Cl. 99—174.

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Beucherie, Pierre, Payrissat, and Wurm. 3,332,750.

Paysinger, Curtis L. Protective closure for toilet bowls. 3,346,-888, 10–17–67, Cl. 4—253.

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Payton, Don E., and W. S. Pattison, to General Electric Co. Rack system for automatic dishwasher. 3,322,479, 5–30–67, Cl. 312—269.

Payton, Edwin M., and J. W. Slover, to Phillips Petroleum Co. Catalytic cracking of residuum oils containing metal contaminants in several stages. 3,303,123, 2–7–67, Cl. 208—76.

Payton, Lelan R., to Reynolds Metals Co. Method of making a low pressure, hermetically sealed, sheet metal container. Re. 26,293, 10–31–67, Cl. 113—121.

Paz et Visseau: *See*—
Gomonet, Edouard. 3,350,601.

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Bryant, Edward T., and Peabody. 3,345,756.

Peace, Robert G., to Eastman Kodak Co. Retractable plastic bottle spout. 3,326,421, 6–20–67, Cl. 222—143.

Peach, Arthur L. Electro-electroless plating method. 3,303,-111, 2–7–67, Cl. 204—38.

Peach, James P. Apparatus for treating seed grain in a seed drill. 3,360,245, 12–26–67, Cl. 259—25.

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Peacock Henry S., to Myers Industries, Inc. Shelf edging and associated display structures. 3,308,963, 3–14–67, Cl. 211—134.

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Shields, Donald, and Peaker. 3,318,140.

Pear, Charles B., Jr., to Radiation Inc. Temperature compensation for hall effect devices. 3,320,520, 5–16–67, Cl. 323—68.

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Church, James W., and Pearce. 3,297,051.

Pearce Inc.: *See*—
Myatt, Gerald. 3,309,077.

Pearce, Ivor L.: *See*—
Tolley, Fred J., and Pearce. 3,338,313.

Pearce, James G., and A. C. Tetrault, to Stromberg-Carlson Corp. Multiple electronic register sender. 3,312,786, 4–4–67, Cl. 179—18.

Pearce, Noel, to The English Electric Co. Ltd. Apparatus for supplying fullwave rectified current from an A.C. source to a load. 3,324,375, 6–6–67, Cl. 321—7.

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MacMillan, Robert W., Mrozek, and Pearce. 3,331,109.

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Arnold, John L., Pearce, and Scholten. 3,349,544.
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Pearce, William H. Adjustable automatic control for a pump. 3,303,785, 2–14–67, Cl. 103—25.

Pearce, William H. Automatic pump control. 3,314,363, 4–18–67, Cl. 103—25.

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Garland, Milton W., and Peard. 3,353,367.

Pearl, Curt C., to Equitable Paper Bag Co., Inc. Shopping bag with tubular plastic handles. 3,339,822, 9–5–67, Cl. 229—54.

Pearl, Daniel M., to Sealatron Corp. Method and apparatus for heat sealing a free marginal edge of an upstanding columnar wall to a peripheral edge. 3,356,552, 12–5–67, Cl. 156—69.

Pearl, David R., and P. W. Kalika, to Combustion Engineering, Inc. Combined wet scrubber and heat exchange apparatus. 3,348,830, 10–24–67, Cl. 261—161.

Pearl, Donald C.: *See*—
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Pearl, Judea, to Radio Corp. of America. Multiple superconductive element parametric amplifiers and switches. 3,324,403, 6–6–67, Cl. 330—4.5.

Pearlman, Alan R., to Nexus Research Laboratory, Inc. Quasi-logarithmic multimeter for providing an output which is a linear function of the logarithmic of the input. 3,320,530, 5–16–67, Cl. 324—62.

Pearlman, Alan R., and W. D. Miller, to Nexus Research Laboratories, Inc. Temperature compensated logarithmic amplifier. 3,329,836, 7–4–67, Cl. 307—88.5.

Pearlman, Thelma S. Shaped telephone base attachment. 3,334,196, 8–1–67, Cl. 179—179.

Pearlman, William. Temperature determination system. 3,308,667, 3–14–67, Cl. 73—362.

Pearlstine, Morton, to Bunting Co. Inc. Furniture. 3,295,-590, 1–3–67, Cl. 160—327.

Pearlstine, Morton. Automatically tiltable beach umbrella. 3,311,119, 3–28–67, Cl. 135—20.

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Pears, Coultas D., to United States of America, Atomic Energy Commission. Thermal insulation. 3,338,686, 8–29–67, Cl. 29—180.

Pears, Gordon E. A., to Imperial Chemical Industries Ltd. Polymerising vinyl chloride. 3,324,097, 6–6–67, Cl. 260—92.8.

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Pearson, Alan, and G. MacZura, to Aluminum Co. of America. Dry grinding of alumina. 3,358,937, 12–19–67, Cl. 241—15.

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Pearson, Eugene W., to Pacific Press & Shear Corp. Hold-down means for a shear machine or the like. 3,345,897, 10–10–67, Cl. 83—389.

Pearson, Eugene W., and R. A. Richardson, to Pacific Press & Shear Corp. Temperature compensated control means for press brakes and the like. 3,323,401, 6–6–67, Cl. 83—636.

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Pearson, Harry C., to Portland Iron Works. Circular saw. 3,299,917, 1–24–67, Cl. 143—133.

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Pearson, Reinhold A. Apparatus for setting up cartons. 3,344,-717, 10–3–67, Cl. 93—53.

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Pearson, Tillmon H., to Ethyl Corp. Production of boronic acids and alcohols. 3,335,175, 8–8–67, Cl. 260—500.

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Pease, Charles C., to KSM Products, Inc. Stud welding system. 3,315,062, 4–18–67, Cl. 219—113.

Pease, Edmund M. System and method for surveillance, tracking and communicating. 3,331,072, 7–11–67, Cl. 343—117.

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Pease, Lionel, to Mill Equipment, Inc. Small log plant. 3,304,971, 2–21–67, Cl. 144—312.

Pease, Lionel, to T. W. Secrest, trustee of the Creditors Committee of Mill Equipment, Inc. Side chippers and edger saws. 3,323,565, 6–6–67, Cl. 144—39.

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Peavy, Alton. Dispenser for packets, packages or envelopes and the like. 3,324,754, 6–13–67, Cl. 83—648.

Peavy, Paulina. Beneficial skin and tissue cover device. 3,297,034, 1–10–67, Cl. 128—390.

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Pechacek, Raymond E., to Hahn & Clay. High pressure seal. 3,339,787, 9–5–67, Cl. 220—46.

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Pechacek, Robert E., to United States of America, Atomic Energy Commission. Electrical circuit for rapidly reversing the direction of current flow through a magnetic core inductor. 3,331,966, 7–18–67, Cl. 307—88.

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Pechini, Maggio P., to Sprague Electric Co. Method of preparing lead and alkaline earth titanates and niobates and coating method using the same to form a capacitor. 3,330,697, 7–11–67, Cl. 117—215.

Pechmann, Wilhelm, to H. Strunck & Co. Apparatus for transferring measured quantities of pulverulent material. 3,339,-595, 9–5–67, Cl. 141—44.

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Peck, Reese A., W. F. Franz, R. M. Suggitt, L. W. Cook, and D. A. Messing, to Texaco Inc. Hydrocracking catalyst and process with the use of a catalyst composite from the iron group admixed with platinum or rhodium on a silleceous cracking base. 3,297,564, 1–10–67, Cl. 208—111.

Peck, Reese A., D. A. Messing, and E. R. Kerr, to Texaco Inc. Hydrocracking nitrogen feed in the presence of halides. 3,305,477, 2–21–67, Cl. 208—112.

Peck, Reese A., D. A. Messing, and E. T. Child, to Texaco Inc. Catalytic hydrocracking of hydrocarbons with the use of halogen and sulfur activators. 3,316,169, 4–25–67, Cl. 208—111.

Peck, Reese A., E. T. Child, and D. A. Messing, to Texaco, Inc. Hydrocracking process. 3,360,457, 12–26–67, Cl. 208—59.

Peck, Richard O., to General Tire & Rubber Co. Injection molding apparatus with diaphragm valve. 3,339,239, 9–5–67, Cl. 18—30.

Peck, Richard O., and C. O. Siemmons, to The General Tire & Rubber Co. Self-lubricating joint. 3,298,762, 1–17–67, Cl. 308—238.

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Peck, William G. Pocket compass with retractible points. 3,308,538, 3–14–67, Cl. 33—27.

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Dudley, Edmond R. 3,338,374.

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Peczkowski, Joseph L., and M. P. Fodroci, to The Bendix Corp. Fuel control apparatus for a combustion engine. 3,327,472, 6–27–67, Cl. 60—39.28.

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Pedersen, Dane H., to Dymo Industries, Inc. Cutoff means for hand operated embossing tool. 3,310,145, 3–21–67, Cl. 197—6.7.

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Pedersen, Dane H., to Dymo Industries, Inc. Embossing tools and magazine supplies therefor. 3,311,209, 3–28–67, Cl. 197—6.7.

Pedersen, Dane H., to Dymo Industries, Inc. Embossing tools and magazine supplies for use in combination therewith. 3,349,883, 10–31–67, Cl. 197—6.7.

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Pedersen, Mathias, and R. J. Cook, to American Machine & Foundry Co. Button stitching machine. 3,343,508, 9–26–67, Cl. 112—113.

Pedersen, Soren K., and J. P. K. Jorgensen. Apparatus for applying a layer of thermoplastic material. 3,359,970, 12–26–67, Cl. 126—343.5.

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Pedone, Peter. Tool for reforming oil seal rim bead. 3,344,651, 10–3–67, Cl. 72—479.

Pedretti, Giovanni, to Montecatini Edison S.p.A. Vulcanizable compositions comprising olefinic polymers and vulcanizates obtained therefrom. 3,317,454, 5–2–67, Cl. 260—33.4.

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Peebles, David M. Storage unit for boxes having open tops. 3,297,385, 1–10–67, Cl. 312—270.

Peebles, David M. Storage boxes adapted to coact with shelf structure for sealing. 3,311,437, 3–28–67, Cl. 312—296.

Peebles, David M. Dispensers for facial tissues and the like. 3,343,716, 9–26–67, Cl. 221—46.

Peebles, Roger E., to Titanium Metals Corp. of America. Titanium base alloy. 3,343,951, 9–26–67, Cl. 75—175.5.

Peek, Charles A., Jr., to United Aircraft Corp. Temperature and pressure probe. 3,343,417, 9–26–67, Cl. 73—345.

Peek, John E., and R. B. White, to General Electric Co. Circuits for protecting electrical power sources. 3,317,793, 5–2–67, Cl. 317—31.

Peek, Nelson A., to General Electric Co. Magnetron shielding means. 3,307,068, 2–28–67, Cl. 315—39.

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Peek, Robert L., Jr., and W. C. Slauson, to United States of America, Army. Tubular electromagnetic relay having a spring armature. 3,325,755, 6–13–67, Cl. 335—187.

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Peeples, Maurice E. Device for randomly ejecting articles. 3,310,312, 3–21–67, Cl. 273—179.

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Perlowski, Edward F., Jr., to General Electric Co. Projection system. 3,317,665, 5–2–67, Cl. 178—7.5.

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Pernert, John C., and R. B. Tideswell, to Hooker Chemical Corp. Phenoxy phosphorusimido chlorides and process for making same. 3,331,893, 7–18–67, Cl. 260—926.

Pernick, David. Fabric inspection machine. 3,299,484, 1–24–67, Cl. 26—70.

Pernick, David, to Monarch International Ltd. Cam means for circular knitting machines. 3,335,581, 8–15–67, Cl. 66—50.

Perold, Louis, to South African Farm Implement Manufacturers Ltd. Earth working machines. 3,324,955, 6–13–67, Cl. 172—136.

Perolin Co., Inc., The: *See*—
Scott, James F. 3,316,070.
Strenkert, Lynn A. 3,337,136.

Peroni, Peter A., to Navigation Computer Corp. Sloping panel keyboard mount. 3,311,210, 3–28–67, Cl. 197—98.

Peronneau, Georges, S. Mikailoff, F. Floret, and P. L. Roman, to Societe Nouvelle d'Electronique et de la Radio-Industrie. Secondary-radar response simulator. 3,357,016, 12–5–67, Cl. 343—17.1.

Perotto, Pier G., to C. Olivetti Ing., & C. S.p.A. Method and apparatus for reading characters. 3,303,469, 2–7–67, Cl. 340—146.3.

Perotto, Pier G., and G. De Sandre, to Ing. C. Olivetti & C., S.p.A. Binary-coded decimal adder with radix correction. 3,304,418, 2–14–67, Cl. 235—169.

Perper, Edward: *See*—
Post, Herman D., and Perper. 3,346,437.

Perper, Lloyd J. Cross correlation direction finder. 3,355,736, 11–28–67, Cl. 343—113.

Perr, Julius P., to Cummins Engine Co., Inc. Fuel injector. 3,351,288, 11–7–67, Cl. 239—89.

Perras, Philippe: *See*—
Colleuille, Yves, and Perras. 3,355,462.

Perreau, Jean: *See*—
De Moustier, Edouard, and Perreau. 3,330,645.

Perreau, Pierre, to Societe d'Instrumentation Schlumberger. Multidock magnetic recording apparatus. 3,359,007, 12–19–67, Cl. 274—4.

Perrella, Guido, and F. M. Picker. Conveying system. 3,314,-556, 4–18–67, Cl. 214—11.

Perrella, Guido, and F. Picker, to Dynacast Ltd. Indexing attachment for sewing machines. 3,322,083, 5–30–67, Cl. 112—67.

Perrella, Guido, and F. Picker, to Dynacast Ltd. Indexing apparatus for sewing machines. 3,349,732, 10–31–67, Cl. 112—65.

Perret, Rene: *See*—
Rouxel, Roland, and Perret. 3,346,726.

Perretta, Arthur O. Wrist exercising device for drummers. 3,341,196. 9–12–67, Cl. 272—67.

Perri, Andrew. Auto carrier and dump box. 3,334,761, 8–8–67, Cl. 214—450.

Perri, Giovanni: *See*—
Marullo, Gerlando, Perri, and Tubiello. 3,345,142.

Perri, John A., J. Riseman, and R. L. Ruggles, Jr., to International Business Machines Corp. Method of covering the surfaces of objects with protective glass jackets and the objects produced thereby. 3,300,339, 1–24–67, Cl. 117—215.

Perri, Joseph M., to E. I. du Pont de Nemours and Co. Method of flocking and subsequently developing latently crimpable fibers and article produced thereby. 3,314,845, 4–18–67, Cl. 161—64.

Perri, Joseph M. and P. H.; now by decree of court to J. M. Perri, assignor to E. I. du Pont de Nemours and Co. Textile product and process. 3,332,832, 7–25–67, Cl. 161—173.

Perri, Nathan, to Union Special Machine Co. Semi-dull finish bobbin case. 3,347,193, 10–17–67, Cl. 112—228.

Perri, Pearl H.: *See*—
Perri, Joseph M. and P. H. 3,332,832.

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Browning, William C., Perricone, and Chesser. 3,303,882.

Perrin, Alan P. Apparatus for manufacturing mouldable urethane foams. 3,353,918, 11-21-67, Cl. 23—252.

Perrine-Cutler Ridge Bank: *See*—
Sherman, Charles I. 3,349,612.

Perrine, Mahlon J., and D. C. Babcock, to Weyerhaeuser Co. Modified aromatic polyamide resin. 3,344,122, 9-26-67, Cl. 260—78.5.

Perrino, Albert C., to I.C.I./Organics/Inc. Modification of cellulosic materials with thiazine dioxide quaternary ammonium salts. 3,301,632, 1-31-67, Cl. 8—116.2.

Perrino, Frank A., to The Singer Co. Braking system and anti-skid means therefor. 3,325,226, 6-13-67, Cl. 303—21.

Perrino, Frank A., to The Singer Co. Power brakes. 3,330,113, 7-11-67, Cl. 60—54.5.

Perrins, Allen R., to The Superior Electric Co. Adjustable voltage autotransformer. 3,302,098, 1-31-67. Cl. 323—43.5.

Perrins, Allen R., to The Superior Electric Co. Electric switch. 3,330,992, 7-11-67, Cl. 317—11.

Perrins, Allen R., to The Superior Electric Co. Electric power stabilizing regulator responsive to plural conditions. 3,345,557, 10-3-67, Cl. 323—43.5.

Perron, Albert J., and T. J. Kowalik, to International Product Design & Research Corp. Sheet metal kiln stilt. 3,324,524, 6-13-67, Cl. 25—153.

Perron, Roger: *See*—
Paquot, Charles, Perron, and Mathieu. 3,314,279.

Perron, Yvon G.: *See*—
Cheney, Lee C., and Perron. 3,311,609.
Cheney, Lee C., and Perron. 3,342,677.

Perrone, Rosario J., to Anaconda Wire and Cable Co. Silicone-rubber, polyethylene composition; heat shrinkable articles made therefrom and process therefor. 3,326,869, 6-20-67, Cl. 260—82.7.

Perrone, Roserio J., and O. E. Jore, to Anaconda Wire and Cable Co. Retractile cord and method of making. 3,318,994, 5-9-67, Cl. 174—69.

Perronnet, Jacques: *See*—
Bertin, Daniel, Nedelec, and Perronnet. 3,313,698.
Bertin, Daniel, and Perronnet. 3,354,037.

Perruzzi, John E. Bi-directional valve. 3,326,233, 6-20-67, Cl. 137—460.

Perry, Albert N., to Wix Corp. Filter unit. 3,300,050, 1-24-67, Cl. 210—234.

Perry, Alfred: *See*—
Durston, Harry D., and Perry. 3,318,208.

Perry, Alfred, and H. D. Durston, to J. A. Terteling & Sons, Inc. Combination excavating trimming machine. 3,308,564, 3-14-67, Cl. 37—96

Perry, Alfred, and H. D. Durston, to J. A. Terteling & Sons, Inc. Combination excavating and trimming machine. 3,310,893, 3-28-67, Cl. 37—85.

Perry, Allen J.: *See*—
Perry, Harry J. 3,339,207.

Perry, Barbour L.: *See*—
Birmingham, Henry P., Baldwin, and Perry. 3,353,153.

Perry, Bernard J.: *See*—
Grayson, Edward L., and Perry. 3,352,979.

Perry, Bryan J., Jr., to Kitchen & Perry, Inc. Curing apparatus for press-free garments and the like. 3,358,386, 12-19-67, Cl. 34—208.

Perry, C. Reginald: *See*—
Johnson, David P. 3,325,951.

Perry, Charles C.: *See*—
Alban, Clarence F., and Perry. 3,335,608.
Alban, Clarence F., and Perry. 3,336,119.

Perry, Charles C. Continuous in-line viscometer. 3,347,089, 10-17-67, Cl. 73—59.

Perry, Charles C. Safety light device for vehicle interiors to indicate visually the condition of the exterior lights. 3,355,708, 11-28-67, Cl. 340—80.

Perry, Charles R., and L. J. Sullivan. Process for separating condensed hydrocarbons from natural gas and reducing pressure on the gas. 3,303,232, 2-7-67, Cl. 260—676.

Perry, Clifton C.: *See*—
Valdettara, Alarico A., Warthan, and Perry. 3,353,878.

Perry Co., The: *See*—
Erickson, Roger L., and Cole. 3,342,483.

Perry, Donald D., and J. A. Castellano, to Thiokol Chemical Corp. 1,2-Bis(difluoramino)alkylene aromatic compounds. 3,352,914, 11-14-67, Cl. 260—570.5.

Perry, Elbert W.: *See*—
Cherney, Jerome A., Germiat, and Perry. 3,311,681.

Perry, Eli, to Monsanto Co. Polymerization of α-cyanostyrene using anionic catalysts. 3,322,742, 5-30-67, Cl. 260—88.7.

Perry, Eli, to Monsanto Co. Stabilization of acrylonitrile polymers. 3,338,987, 8-29-67, Cl. 260—898.

Perry, Elijah R. Metal ski having a pair of grooves at the opposite edges thereof. 3,295,859, 1-3-67, Cl. 280—11.13.

Perry, Elijah R., and J. C. W. Ransom, to Allis-Chalmers Mfg. Co. Means for sensing conditions in high potential region and for transmitting such intelligence by light means to low potential regions. 3,346,811, 10-10-67, Cl. 324—96.

Perry, Elijah R., J. L. Mundon, and A. M. Frey, to Allis-Chalmers Mfg. Co. Contacts for pantograph switch. 3,350,520, 10-31-67, Cl. 200—48.

Perry, Forbes G. D., M. A. Flint, T. G. Fellows, and J. N. Armstrong, to National Research Development Corp. Continuously variable ratio transmission units. 3,306,119, 2-28-67, Cl. 74—200.

Perry, Frank J.: *See*—
Whitman, Robert L., and Perry. 3,357,595.

Perry, Gardner H.: *See*—
Lowry, Edward D., Voelz, Perry, and Butler. 3,335,722.

Perry, Gerald H., and E. W. Shallow, to National Research Development Corp. Magnetic stores preventing spurious triggering of transistor. 3,324,312, 6-6-67, Cl. 307—88.5.

Perry, Glen W.: *See*—
Clark, Bob R., and Perry. 3,351,356.

Perry, Glenn: *See*—
Miller, Alfred H., Perry, and Wheat. 3,341,889.

Perry, Harry J., 10% to A. J. Perry. Chin actuated welding hood. 3,339,207, 9-5-67, Cl. 2—8.

Perry, Jack H., and R. L. Colling, to General Motors Corp. Electronic speed control system. 3,332,406, 7-25-67, Cl. 123—102.

Perry, James G. Anchor for sash balancer. 3,296,652, 1-10-67, Cl. 16—197.

Perry, James H., to Norton Co. Drainage control elements for paper machines. 3,352,749, 11-14-67, Cl. 162—352.

Perry, James T.: *See*—
Krylow, Konstanty E., Perry, and Reimer. 3,332,825.

Perry, James W. Post driving and compacting machine. 3,302,731, 2-7-67, Cl. 173—112.

Perry, James W. Post driving machine. 3,335,804, 8-15-67, Cl. 173—112.

Perry, John C.: *See*—
Kneller, Wentworth D., Perry, and Athas. 3,302,590.

Perry, John H., V. Benatar, and H. G. Gentry, to The Mead Corp. Feeder mechanism and method. 3,337,020, 8-22-67, Cl. 198—22.

Perry, John K.: *See*—
Henderson, Jesse F., Smith, and Perry. 3,332,744.

Perry, John T., and C. J. Kawiecki, to Joslyn Mfg. and Supply Co. Magnetically biased vacuum relay. 3,312,803, 4-4-67, Cl. 200—144.

Perry, John T., and R. M. Cooney, to Dunlee Corp. Rectifier. 3,319,136, 5-9-67, Cl. 317—234.

Perry, Joseph F., 45% to W. L. Reardon. Auxiliary automobile wheel support. 3,295,894, 1-3-67, Cl. 301—38.

Perry, Joseph F., and K. A. Stevens. Onion peeler. 3,350,778, 11-7-67, Cl. 30—24.

Perry, Kenneth E., to Winfield Brooks Co., Inc. Oven cleaner and method of using the same. 3,335,092, 8-8-67, Cl. 252—158.

Perry, Kenneth E., to Geodyne Corp. Universal digital information system. 3,350,707, 10-31-67, Cl. 340—347.

Perry, Kenneth E., to Geodyne Corp. Stepping circuits for recording apparatus. 3,351,951, 11-7-67, Cl. 346—107.

Perry, Kenneth E., and P. F. Smith, to Geodyne Corp. Monitoring position-indicating recorder. 3,349,406, 10-24-67, Cl. 346—107.

Perry, Kenneth P.: *See*—
Caldwell, John R., Perry, and Jackson. 3,351,645.

Perry, Landis H., to FMC Corp. Fluid seal. 3,301,568, 1-31-67, Cl. 277—142.

Perry, Landis H., to FMC Corp. Fluid joint and seal assembly therefor. 3,314,695, 4-18-67, Cl. 285—95.

Perry, Landis H., to FMC Corp. Energizer for fluid seal. 3,357,693, 12-12-67, Cl. 267—1.5.

Perry, Landis H. Combination lock. 3,358,479, 12-19-67, Cl. 70—25.

Perry, Lee D., to Robert B. Bishop, Inc. Tamper-proof meter enclosure. 3,355,945, 12-5-67, Cl. 73—201.

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Congdon, George L., Peiffer, and Perry. 3,333,127.

Perry, Marvin L., and J. S. Nicholas. Glass removing tool. 3,331,131, 7-18-67, Cl. 30—140.

Perry, Milton A.: *See*—
Duke, Roy B., Jr., and Perry. 3,320,336.
Duke, Roy B., Jr., Perry, and Wright. 3,340,312.

Perry, Milton A., and F. C. Canter, to Eastman Kodak Co. Ether-acid polyester composition. 3,320,079, 5-16-67, Cl. 106—181.

Perry, Norman L.: *See*—
Kauder, Otto S., and Perry. 3,346,536.

Perry, Ray P., to Bemis Co., Inc. Bag. 3,302,859, 2-7-67, Cl. 229—53.

Perry, Ray P., and A. D. Hoeppner, to Bemis Co., Inc. Plastic bags. 3,309,006, 3-14-67, Cl. 229—53.

Perry, Robert H., Jr., to Esso Research and Engineering Co. Maleic anhydride adduct with bicyclo (5.2.0) dodeca-1,6-diene. 3,326,909, 6-20-67, Cl. 260—346.3.

Perry, Robert H., Jr., and L. C. Jennings, to Esso Research and Engineering Co. Process for color improvement of β-vinyladipic acid. 3,359,311, 12-19-67, Cl. 260—537.

Perry, Robert O., and D. R. Holbert, to Sinclair Research Inc. Method for copolymerizing an alkylidene bisacrylamide and an ethylenic monomer employing radiation. 3,324,017, 6-6-67, Cl. 204—159.24.

Perry, Ronald A., to The Procter & Gamble Co. Ammoniated granular cleaner. 3,354,092, 11-21-67, Cl. 252—137.

Perry, Russell, to General Time Corp. Electronic counter. 3,359,406, 12-19-67, Cl. 235—92.

Perry, Terence: *See*—
Everard, Kenneth B., and Perry. 3,345,439.

Perry, Walter B., and D. L. Livesay. Trench digging machine. 3,319,365, 5-16-67, Cl. 37—94.

Perry, Walter M., to Johns-Manville Corp. Burner apparatus. 3,322,180, 5-30-67, Cl. 158—116.

Perry, Wesley G.: *See*—
Vash, Arthur M., and Perry. 3,354,971.

Perry, William D., to Weyerhaeuser Co. Moisture determining apparatus having adjacent electrode pairs driven out-of-phase. 3,339,137, 8-29-67, Cl. 324—61.

Perry, William D., to Weyerhaeuser Co. Method for measuring the moisture content of wood. 3,354,388, 11-21-67, Cl. 324—65.

Perry, William M.: *See*—
Hess, Calvin J., and Perry. 3,312,749.

Perryman, George H., to The Bendix Corp. Device for measuring flight distance of a missile. 3,353,487, 11-21-67, Cl. 102—70.2.

Perryman, John S., to Curtiss-Wright Corp. Spring clutch mechanism. 3,298,486, 1-17-67, Cl. 192—47.

Perryville Mfg. Co.: *See*—
Zahner, Clarence L. 3,335,883.

Perschy, James A., to United States of America, Navy. Bi-directional current steering switch. 3,296,604, 1-3-67, Cl. 340—174.

Perschy, Roy B., to Ling-Temco-Vought, Inc. Device for converting changing coordinate inputs into resultant motion. 3,304,552, 2-14-67, Cl. 346-29.

Persia, Raymond J., J. E. Arnold, and H. A. Martens, to Mackworth G. Rees, a division of Avis Industrial Corp. Safety lock switch. 3,321,589, 5-23-67, Cl. 200—42.

Persicke, Gunter, to Christiani & Nielsen Ltd. Hydraulic jacks and the like. 3,338,552, 8-29-67, Cl. 254—29.

Persicke, Gunter, to Christiani & Nielsen Ltd. Apparatus for stressing elongated members. 3,338,553, 8-29-67, Cl. 254—29.

Persico, George J.: *See*—
Steele, Luther R., and Persico. 3,338,082.

Person, Ernest H., to Allied Thermal Corp. Piston dampener. 3,313,380, 4-11-67, Cl. 188—86.

Person, Lawrence. Carburetor construction. 3,319,945, 5-16-67, Cl. 261—46.

Person, Tage H., to LKB-Produkter Aktiebolag. Method and a device for separating gas bubbles from a liquid flow. 3,347,096, 10-17-67, Cl. 73—200.

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Tillander, Magnus E., Persson, and Johansson. 3,351,025.

Personeus, Gordon R., and S. R. Hawkins, to American Cyanamid Co Gelatin stabilized drug tablet streptokinase-streptodornase composition. 3,344,028, 9-26-67, Cl. 167—73.

Persons, Charles E.: *See*—
Allen, Willard B., Persons, and Westerfield. 3,337,870.

Persons-Majestic Mfg. Co.: *See*—
Saunders, Henry A. 3,348,697.

Persons, Richard L., to J. A. Fenlon. Rotary seals. 3,326,559, 6-20-67, Cl. 277—95.

Persson, Ake B.: *See*—
Wallin, Ake W., and Persson. 3,318,537.

Persson, Bo K. G.: *See*—
Wallin, Ake W., and Persson. 3,318,537.

Persson, Bo K. G., to Trelleborgs Gummifabriks Aktiebolag. Walls exposed to wear. 3,350,832, 11-7-67, Cl. 52—622.

Persson, Bror G. Resilient support for seats, especially for motor vehicles. 3,314,672, 4-18-67, Cl. 267—1.

Persson, Bror G. Resilient support for seats. 3,339,906, 9-5-67, Cl. 267—1.

Persson, Earl R., to Sprinter-Pack AB. Method of gluing cardboard boxes and box adapted to be glued in accordance with such method. 3,317,116, 5-2-67, Cl. 229—38.

Persson, Erland K., to Electro-Craft Corp. Motor speed control apparatus. 3,335,350, 8-8-67, Cl. 318—327.

Persson, Gustaf A. Gang saws. 3,322,170, 5-30-67, Cl. 143—81.

Persson, Karl G. S., P. H. Lindroth, and L. I. Hellner, to Aktiebolaget Bofos. Forgeable corrosion-resisting steel with high neutron-absorption capacity. 3,340,047, 9-5-67, Cl. 75—126.

Persson, Karl R., to Sprinter-Pack AB. Carton tray. 3,322,322, 5-30-67, Cl. 229—34.

Persson, Karl R., to Sprinter-Pack AB. Blank for making a cardboard box and box erected therefrom. 3,322,324, 5-30-67, Cl. 229—38.

Persson, Karl R., to Sprinter-Pack AB. Cardboard box and blank for making such box. 3,325,080, 6-13-67, Cl. 229—34.

Persson, Karl R., to Sprinter-Pack AB. Multi-cell trays. 3,351,261, 11-7-67, Cl. 229—28.

Persson, Sven E. Window construction. 3,310,927, 3-28-67, Cl. 52—656.

Persson, Sven E. Window with blind. 3,318,360, 5-9-67, Cl. 160—107.

Perttula, Harold V.: *See*—
Austin, Curtis L., Bateson, Perttula, and Tsuchiya. 3,332,293.

Perucca, James R.: *See*—
Newhall, Edmunde E., and Perucca. 3,328,780.

Perucco, Joseph: *See*—
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Perugi, Archie H.: *See*—
Erwin, John R., and Perugi. 3,314,649.

Perun, Thomas J., to Abbott Laboratories. Anhydrotriacetylerythronolide B. 3,357,999, 12-12-67, Cl. 260—343.

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Pervier, Charles F., to Kiekhaefer Corp. Single lever remote control for marine propulsion units. 3,309,938, 3-21-67, Cl. 74—472.

Pervier, James W., to Air Products and Chemicals, Inc. Refrigeration system for gas liquefaction. 3,327,488, 6-27-67, Cl. 62—13.

Pesa, Henry S.: *See*—
Lyon, Marjorie C., Pesa, and Fauver. 3,340,681.

Pesaro, Mario: *See*—
Eschenmoser, Albert, Scheffold, Bertele, Pesaro, and Bosshard. 3,340,211.

Pescara, Raul P. Free piston engines. 3,347,215, 10-17-67, Cl. 123—46.

Pesce, Gabriel V.: *See*—
Milleti, Joseph A., Kouns, and Peace. 3,315,085.

Pesch, Edward T., and R. S. Vaughn, to Eastman Kodak Co. Color developers containing competing developing agents. 3,300,305, 1-24-67, Cl. 96—22.

Peschel, Stanley G. Apparatus for testing the insulation of electrically insulated wires including a plurality of conductive resilient elements supported between a pair of spaced rings for contacting the insulation of the wires under test. 3,310,735, 3-21-67, Cl. 324—54.

Peschke, Karl, Kapitalverwaltungs Karl Peschke m.b.H.: *See*—
Seeber, Fritz. 3,309,097.

Peschl, Erwin, A. Rataj, A. Danhel, J. Zmatlik, and Sedlecky, to Vyskumny Ustav Bavlnarsky. Quilting and knitting machine. 3,310,964, 3-28-67, Cl. 66—85.

Pesek, Vladimir, J. Elias, J. Holub, P. Celerin, and O. Rehurek, to Vyzkumny Ustav Bavlnarsky. Filament break detector. 3,315,047, 4-18-67, Cl. 200—61.18.

Peskett, Francis J.: *See*—
Lemon, Peter H. R. B., and Peskett, 3,310,602.

Pesson, Andre, to Societe Rhodiaceta. Production of ω-lactams. 3,338,889, 8-29-67, Cl. 260—239.3.

Pesson, Marcel, to Roger Bellon Laboratoire. 1-Tertiary amino-3-phenyl-3-furfuryl-4-lower alkyl ketones. 3,299,059, 1-17-67, Cl. 260—247.7.

Pesson, Marcel, to Societe anonyme dite: Laboratoire Roger Bellon. 2-phenyl and cyclohexyl-2-cyano-2-tertiary amino lower alkyl acetamides. 3,310,555, 3-21-67, Cl. 260—246.

Pesson, Marcel, to Societe anonyme dite: Roger Bellon Laboratoire. Alpha phenyl-beta-(2-tetrahydrofuryl) alpha-tertiary amino alkyl propionitriles. 3,314,967, 4-18-67, Cl. 260—294.

Pesson, Marcel, to Laboratoire Roger Bellon. Substituted 2-pyrrylketones. 3,337,562, 8-22-67, Cl. 260—294.7.

Pestel, Paul, and J. Manderbach, to The Flintkote Co. Wall construction. 3,341,997, 9-19-67, Cl. 52—364.

Pestka, John A., to Warwick Electronics Inc. Inflatable packing insert. 3,346,101, 10-10-67, Cl. 206—46.

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Finley, Roy D., and Hollowell. 3,351,472.

Pet Milk Co.: *See*—
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Petelinkar, Richard A., to General Electric Co. Distillation of dimethylchlorosilane in presence of added HCl. 3,359,186, 12-19-67, Cl. 203—34.

Peter, Albin, and F. Mueller, to Sandoz Ltd. (also known as Sandoz A.G.). Benzazolyl mercaptoanthraquinones. 3,318,903, 5-9-67, Cl. 260—303.

Peter, Hans-Jurgen, and A. Mohra, to International Standard Electric Corp. Mounting plate and pull-out device. 3,303,394, 2-7-67, Cl. 317—101.

Peter, Heinrich: *See*—
Eschenmober, Albert, Schreiber, and Peter. 3,329,690.

Peter, Henry B.: *See*—
Klemm, William F., and Alber. 3,323,535.
Klemm, William F., and Alber. 3,335,748.

Peter, Julius: *See*—
Wagner, Kuno, and Peter. 3,326,862.

Peter, Julius, and W. Neumann, to Farbenfabriken Bayer Aktiengesellschaft. Stabilization of monoolefin polymers with carbodiimides. 3,297,795, 1-10-67, Cl. 260—897.

Peter, Siegfried: *See*—
Deicher, Oskar, Peter, and Buchholz. 3,334,469.

Peter, Siegfried, and O. Buchholz, to Gewerkschaft Elwerath. Method of preventing the depositing of sulfur in the riser pipes in producing natural gases laden with hydrogen sulfide and containing elemental sulfur in solution. 3,331,657, 7-18-67, Cl. 23—3.

Peterhans, Ernst, and F. Schiltknecht, to Lanza Ltd. Process for the improvement of the storage properties of urea. 3,299,133, 1-17-61, Cl. 260—555.

Petering, Wilbur H., and W. A. Callahan, to Detrex Chemical Industries, Inc. Composition and method of inhibiting corrosion of cupreous metals by amine-stabilized unsaturated chlorinated hydrocarbons. 3,359,209, 12-19-67, Cl. 252—153.

Peterkin, Melvin E., to Sun Oil Co. Hot melt adhesive comprising polypropylene and an aromatic hydrocarbon-aldehyde resin. 3,325,562, 6-13-67, Cl. 260—897.

Peterkin, Melvin E., to Sun Oil Co. Hot melt adhesive comprising polypropylene and a polyterpene. 3,341,626, 9-12-67, Cl. 260—897.

Peterkin, Melvin E., to Sun Oil Co. Hot melt adhesive having pressure sensitivity comprising atactic polypropylene, ethylene/vinyl acetate copolymer, and a polyterpene. 3,342,902, 9–19–67, Cl. 260—897.

Peterlein, Karl, to Gelsenberg Benzin Aktiengesellschaft. Process of purifying pyromellitic dianhydride. 3,338,923, 8–29–67, Cl. 260—346.3.

Peterlin, Henry. Training and walking leash. 3,311,088, 3–28–67, Cl. 119—109.

Peterman, Charles J.: *See*—
Mariani, Thomas L., Hirschmann, Cupolo, and Peterman. 3,345,804.

Peterman, Robert J., and D. H. Leiker, Jr., to Imperial-Eastman Corp. Crimping apparatus. 3,335,594, 8–15–67, Cl. 72—308.

Petermann, Lucien, to Commissariat a l'Energie Atomique. Method for the manufacture of vacuum containers. 3,343,-999, 9–26–67, Cl. 148—16.5.

Peternel, Jacob R., to General Electric Co. Acceleration, speed and load control system with redundant control means. 3,340,883, 9–12–67, Cl. 137—26.

Peterpaul, Joseph: *See*—
Kobler, Richard, Whitlock, Babaoff, and Peterpaul. 3,343,-277.

Peters, Andrew P. Variable speed drive. 3,313,169, 4–11–67, Cl. 74—230.17.

Peters, Basil and L. B., to Fairey Engineering Ltd. Spherical stepped-index microwave luneberg lense. 3,321,765, 5–23–67, Cl. 343—911.

Peters, Beldon A.: *See*—
Carlton, Louis A., Rich, and Peters. 3,357,025.

Peters, Beldon A., to Esso Production Research Co. Apparatus for repairing pipe strings. 3,349,852, 10–31–67, Cl. 166—113.

Peters, Carl I., Jr. Protective circuit for electro-firing devices. 3,343,491, 9–26–67, Cl. 102—70.2.

Peters, Carl I., Jr. Radiation responsive device. 3,360,726, 12–26–67, Cl. 324—119.

Peters, Charles J., to Sylvania Electric Products Inc. Transmission line light modulator. 3,304,428, 2–14–67, Cl. 250—199.

Peters, Charles J., to Sylvania Electric Products, Inc. Transmission line light modulator. 3,313,938, 4–11–67, Cl. 250—199.

Peters, Claudius AG.: *See*—
Van Hees, Adrian. 3,360,192.

Peters, Clifford M.: *See*—
Garrett, Henry U., Peters, and Dinning. 3,318,386.
Garrett, Henry U., Peters, and Dinning. 3,353,605.

Peters, Collette I.: *See*—
Peters, Myron J. and C. 3,336,638.

Peters, David L., to Hazeltine Research, Inc. Automatic electron beam focusing system. 3,356,792, 12–5–67, Cl. 178—7.2.

Peters, Don B.: *See*—
Brown, Omar L., and Peters. 3,349,949.

Peters, Donald L.: *See*—
Scott, John N., Jr., and Peters. 3,309,443.

Peters, Donald L., to Phillips Petroleum Co. Method and apparatus for blow molding hollow articles. 3,342,916, 9–19–67, Cl. 264—98.

Peters, Donald R., to General Motors Corp. Brake bleed and fill machine. 3,339,401, 9–5–67, Cl. 73—40.5.

Peters, Earl, and H. H. Kuhn, to Deering Milliken Research Corp. (Hydroxyethyl polyethyleneoxyamino) - phenylazo naphthalen-1,8-diols. 3,337,525, 8–22–67, Cl. 260—200.

Peters, Edwin F.: *See*—
Shepard, John W. Juveland, and Peters. 3,326,871.
Shepard, John W., Peters, and Juveland. 3,352,795.

Peters, Edwin F., and O. O. Juveland, to Standard Oil Co. Polymerization process. 3,303,151, 2–7–67, Cl. 260—28.5.

Peters, Erich: *See*—
Mnlik, Reinhold, and Peters. 3,324,551.

Peters, Fred, to United Shoe Machinery Corp. Eyelet type joints. 3,356,404, 12–5–67, Cl. 287—189.36.

Peters, Hans, to Reichhold Chemical, Inc. Catalytic reactor tube. 3,353,923, 11–21–67, Cl. 23—288.

Peters, Harlan J., and L. W. Bowling. Means for forming lines of weakness in cementitious floors, pavements and the like. 3,352,217, 11–14–67, Cl. 94—18.

Peters, Harold P., to Whirlpool Corp. Pan support structure. 3,331,646, 7–18–67, Cl. 312—270.

Peters, Harry E., to Varian Associates. Atomic maser with improved atomic flux intensity control. 3,296,552, 1–3–67, Cl. 331—94.

Peters, Heinrich: *See*—
Thams, Hans. 3,308,579.

Peters, Heinrich, D. Schleede, and F. Schülde, to Hercules Inc. Compositions comprising polypropylene, ethylene-propylene copolymer, and aliphatic dicarboxylic acid diester. 3,325,437, 6–13–67, Cl. 260—31.8.

Peters, Hermann, to BOMAG Bopparder Maschinenbaugesellschaft m.b.H. Vibrating road roller. 3,309,972, 3–21–67, Cl. 94—50.

Peters, Howard M.: *See*—
Clement, William H., Peters, and Selwitz. 3,317,624.
Clement, William H., Peters, and Selwitz. 3,318,969.
Clement, William H., Peters, and Selwitz. 3,322,844.

Peters, Johannes, to Bolkow Gesellschaft mit beschrankter Haftung. Passive magnetic proximity fuse. 3,308,760, 3–14–67, Cl. 102—70.2.

Peters, John K., to Burke Flexo-Products Co. Fish lures. 3,344,550, 10–3–67, Cl. 43—42.14.

Peters, John K., and B. A. McClellan, to Burke Flexo Products Co. Fishing lures and hook harnesses therefor. 3,344,-549, 10–3–67, Cl. 43—42.11.

Peters, John L. Ion source having both deflection and repeller electrodes for directing an electron stream. 3,296,481, 1–3–67, Cl. 313—230.

Peters, Lawrence B.: *See*—
Peters, Basil and L. B. 3,321,765.

Peters, Leo: *See*—
Burke, Albert P. 3,303,759.
Tenniswood, Howard J., and Peters. 3,308,635.

Peters, Leo. Butter pat packaging. 3,317,326, 5–2–67, Cl. 99—179.

Peters, Leonhard, to May-Pressenbau G.m.b.H. Press. 3,315,-596, 4–25–67, Cl. 100—282.

Peters, Leonhard, to May-Pressenbau G.m.b.H. Press apparatus. 3,347,158, 10–17–67, Cl. 100—269.

Peters, Lynn R., and G. F. Hennion, to Eli Lilly and Co. Process for dibenzo [A,D] cyclohepta [1.4] diene intermediates. 3,321,535, 5–23–67, Cl. 260—649.

Peters Machinery Co.: *See*—
Talbot, Richard C. 3,323,281.
Talbot, Richard C. 3,327,680.
Talbot, Richard C. 3,332,212.
Talbot, Richard C. 3,340,824.

Peters, Melville F. Fluid separating device. 3,300,053, 1–24–67, Cl. 210—519.

Peters, Melville F. Air release valve assembly. 3,340,887, 9–12–67, Cl. 137—202.

Peters, Melville F. Method of extending the useful life of surge attennating devices. 3,345,725, 10–10–67, Cl. 29—157.

Peters, Myron J. and C. I. Pinning device. 3,336,638, 8–22–67, Cl. 24—6.

Peters, Richard J. Bookmark. 3,324,823, 6–13–67, Cl. 116—119.

Peters, Robert N., to L. W. Menzimer, Trustee. Automotive door latch. 3,305,258, 2–21–67, Cl. 292—198.

Peters, Robert W.: *See*—
Garrett, Henry U., Peters, and Dinning. 3,333,640.

Peters, Robert W., to H. J. Gorski. Stator core winding machine. 3,323,734, 6–6–67, Cl. 242—1.1.

Peters, Robert W. Electric motor. 3,334,255, 8–1–67, Cl. 310—215.

Peters, Robert W., to H. J. Gorski. Armature winding machine. 3,345,002, 10–3–67, Cl. 242—13.

Peters, Rudolph W. Content dispenser for collapsible tubes. 3,332,579, 7–25–67, Cl. 222—96.

Peters and Russell, Inc.: *See*—
McPherson, Hal W. 3,334,358.
McPherson, Hal W. 3,335,756.
Russell, Linus E. 3,347,273.
Russell, Linus E. 3,347,385.

Peters, Theodore F., to General Motors Corp. Vehicle differential brake control. 3,312,314, 4–4–67, Cl. 188—152.

Peters, Theodore F., to General Motors Corp. Closure latch with auxiliary latch release. 3,312,491, 4–4–67, Cl. 292—201.

Peters, Timothy V., to Ameliotex, Inc. Continuous process of producing solutions of substantially linear polyurethanes. 3,346,529, 10–10–67, Cl. 260—32.6.

Peterschmidt, Paul L., to Diversification Development, Inc. Bulk blending and bulk storage plants. 3,327,874, 6–27–67, Cl. 214—16.

Petersen, Anita E.: *See*—
Benetti, John G. 3,312,002.
Petersen, Gerald A. 3,312,297.
Petersen, Gerald A. 3,316,988.
Petersen, Gerald A. 3,323,235.
Petersen, Gerald A. 3,323,236.
Petersen, Gerald A. 3,330,055.
Petersen, Gerald A. 3,345,765.
Petersen, Gerald A. 3,349,508.
Petersen, Gerald A. 3,357,117.
Petersen, Gerald A. 3,359,662.
Petersen, Gerald A., and Lanum. 3,346,284.
Troeppl, William M. 3,312,003.
Troeppl, William M., and Benetti. 3,305,954.
Troeppl, William M., and Petersen. 3,300,883.

Petersen, Arne G., to Westinghouse Electric Corp. Adjustable pitch axial flow fan blades. 3,357,496, 12–12–67, Cl. 170—160.6.

Petersen, Carl T., and E. R. McClelland, to Filper Corp. Method of bisecting and pitting freestone drupes. 3,330,320, 7–11–67, Cl. 146—224.

Petersen, Donald K. Plane anchorage. 3,338,176, 8–29–67, Cl. 104—35.

Petersen, Erich H., and H. K. Steuer, to Reimers-Getriebe K.G. Automatic belt or chain tightening mechanism for an infinitely variable cone pulley transmission. 3,349,633, 10–31–67, Cl. 74—230.17.

Petersen, Gerald A.: *See*—
Benetti, John G. 3,312,002.
Troeppl, William M., and Benetti. 3,305,954.
Troeppl, William M., and Benetti. 3,312,003.
Troeppl, William M., and Petersen. 3,300,883.

Petersen, Gerald A. Cheek and tooth protector. 3,307,539, 8–7–67, Cl. 128—136.

Petersen, Gerald A., ½ to A. E. Petersen. Earth auger head having finger tip teeth. 3,312,297, 4–4–67, Cl. 175—392.

Petersen, Gerald A., ½ to A. E. Petersen. Auger head with three radial arms. 3,316,988, 5–2–67, Cl. 175—391.

Petersen, Gerald A., ½ to A. E. Petersen. Resilient retainer for excavating tooth. 3,323,235, 6–6–67, Cl. 37—142.

Petersen, Gerald A., ½ to A. E. Petersen. Reversely bent retainer for pronged excavating tooth. 3,323,236, 6–6–67, Cl. 37—142.

Petersen, Gerald A., ½ to A. E. Petersen. Resilient retaining means for jacketed tooth. 3,330,055, 7–11–67, Cl. 37—142.

Petersen, Gerald A., ½ to A. E. Petersen. Reversely bent resilient retainer for digging implement blades. 3,345,765, 10–10–67, Cl. 37—142.

Petersen, Gerald A., ½ to A. E. Petersen. Tooth with T-shaped shank. 3,349,508, 10–31–67, Cl. 37—142.

Petersen, Gerald A., ½ to A. E. Petersen. Resilient retaining means for digging implement blades. 3,357,117, 12–12–67, Cl. 37—142.

Petersen, Gerald A., ½ to A. E. Petersen. Resilient retainer for excavating teeth fused to tooth holder. 3,359,662, 12–26–67, Cl. 37—142.

Petersen, Gerald A. and W. J. Lanum, said Petersen assor. of ½ to A. E. Petersen. Swivel cable pulling grip and filler. 3,346,284, 10–10–67, Cl. 287—91.

Petersen, Harold E.: *See*—
Chesarek, Donald J., and Petersen. 3,353,157.

Petersen, Herbert O. Riser supports. 3,331,579, 7–18–67, Cl. 249—14.

Petersen, James M.: *See*—
Reed, David D., Moroz, and Petersen. 3,342,735.

Petersen, James M., and J. F. Lyons, to Texaco Inc. Alkyl alkenethiophosphonate and their lubricant composition. 3,296,132, 1–3–67, Cl. 252—46.6.

Petersen, John F., to Real Estate Securities, Inc. Fluid pressure control valve. 3,329,170, 7–4–67, Cl. 137—625.69.

Petersen, Mogens, to Kongskilde Maskinfabrik A/S. Container with connecting elements for the wall portions. 3,323,265, 6–6–67, Cl. 52—302.

Petersen, Paul S.: *See*—
Werner, Frank D., Darr, Edberg, and Petersen. 3,313,046.
Werner, Frank D., and Petersen. 3,332,116.

Petersen, Povl V., and T. Huld, to Kefalas A/S. Thiaxanthenols, process of producing and anti-tussive compositions thereof. 3,359,161, 12–19–67, Cl. 167—55.

Petersen, Richard W.: *See*—
Mellott, Robert N., and Petersen. 3,353,082.

Petersen, Rolland G. Key and combination cylinder lock. 3,312,090, 4–4–67, Cl. 70—285.

Petersen, Rudolph S.: *See*—
Osgood, Winthrop B., Jr., and Petersen. 3,340,895.

Petersen, Rudolph S., and B. Olsen, to Sanders Associated, Inc. Fluid flow sensing device. 3,325,612, 6–13–67, Cl. 200—81.9.

Petersen, Sigrud R., to Westinghouse Electric Corp. Support arrangement for diodes in a rotating rectifier exciter. 3,348,-127, 10–17–67, Cl. 322—59.

Petersen, Thorvald K., to Douglas Aircraft Co., Inc. Satellite orbital simulator. 3,303,583, 2–14–67, Cl. 35—47.

Petersen, Walter. Reinforced plastic glass holding frame. 3,348,349, 10–24–67, Cl. 52—498.

Petersen, Walter E.: *See*—
Pinke, August H., and Petersen. 3,321,178.

Petersen, Warren D., to Schlumberger Ltd. (Schlumberger N.V.). Stack chair. 3,316,016, 4–25–67, Cl. 297—239.

Petersen, Warren E., to Western Electric Co., Inc. Strand measuring device. 3,318,005, 5–9–67, Cl. 33—134.

Petersilka, Franz K., R. P. Schittenhelm, and R. G. Weiss, to Siemens-Reiniger Werke Aktiengesellschaft. Vacuum pump. 3,357,633, 12–12–67, Cl. 230—69.

Peterson, Adolphe C. Heat regeneration system for gas turbines. 3,306,039, 2–28–67, Cl. 60—39.51.

Peterson, Adolphe C. Utilization of nuclear reactor in connective distillation and power generation system. 3,336,207, 8–15–67, Cl. 202—236.

Peterson, Adolphe C. Apparatus for convective distillation of materials in solution with hot gas produced by combustion. 3,351,537, 11–7–67, Cl. 202—172.

Peterson, Adolphe C. Method and apparatus for distillation of materials in solution by direct and indirect contact with air. 3,356,591, 12–5–67, Cl. 203—10.

Peterson, Adolphe C. Turbine propulsion and drive for aircraft rotor means. 3,357,656, 12–12–67, Cl. 244—17.23.

Peterson, Alan H.: *See*—
Argabright, Perry A., and Peterson. 3,328,461.
Kelly, Joe T., Peterson, and Templeman. 3,308,053.

Peterson, Alge T., Jr.: *See*—
Potter, Omer R., and Peterson. 3,314,378.

Peterson, Alice L. Cylindrical grain dryer device. 3,344,533, 10–3–67, Cl. 34—230.

Peterson, Arnold G., and N. H. Mabie, to L. M. & L. Corp. False twister head. 3,334,481, 8–8–67, Cl. 57—77.3.

Peterson, Arthur R.: *See*—
Terp, Charles J., and Peterson. 3,323,258.

Peterson, Bernice E.: *See*—
Peterson, Walter G. and B. E. 3,354,558.

Peterson Brothers Mfg. Co.: *See*—
Peterson, Horthun L. 3,301,112.

Peterson, Bulow A.: *See*—
Malmrose, John P., and Peterson. 3,302,332.

Peterson, Carl A., to Basic Products Corp. Transformer and saturable reactor voltage regulator. 3,353,093, 11–14–67, Cl. 323—43.5.

Peterson, Carl H., to C. F. Shepherd. Suction-type grinding mill. 3,313,494, 4–11–67, Cl. 241—56.

Peterson, Charles A., to Pan American Sulphur Co. Holder for campaign buttons, flags and the like. 3,357,662, 12–12–67, Cl. 248—39.

Peterson, Charles D. Gas pressure regulator with 180° U-bend valve body. 3,330,295, 7–11–67, Cl. 137—382.

Peterson, Clarence A., to United States of America, Navy. Automatic frequency analyzer using parallel one-third octave filters. 3,337,799, 8–22–67, Cl. 324—77.

Peterson, Clarence G., 25% to H. G. Anderson, W. B. Anderson, R. H. Nyholm, and H. Anderson, Jr. Spring biased valve operating lever. 3,313,516, 4–11–67, Cl. 251—144.

Peterson, Clifford D.: *See*—
Dirk, William R., and Peterson. 3,325,237.
Dirk, William R., and Peterson. 3,358,672.

Peterson, Dana, and W. W. Morgan. Tool handle. 3,328,999, 7–4–67, Cl. 72—388.

Peterson, David G., to Ultra, Inc. Disintegrator pump. 3,325,-107, 6–13–67, Cl. 241—101.

Peterson, David R., to Motorola, Inc. Method of forming thin oxide films. 3,306,768, 2–28–67, Cl. 117—106.

Peterson, Dean M.: *See*—
Kottler, Franklin D., Vroom, and Peterson. 3,327,105.

Peterson, Dean M., C. E. Pickering, and W. Windle, Jr., to Eastman Kodak Co. Unidirectional clutch mechanism. 3,300,003, 1–24–67, Cl. 192—46.

Peterson, Dean M., and H. F. Roller, to Eastman Kodak Co. Method of manufacturing a friction clutch. 3,321,565, 5–23–67, Cl. 264—162.

Peterson, Dean M., and C. E. Pickering, to Eastman Kodak Co. Miniature flash attachment and photoflash lamp socket receiving portion. 3,353,465, 11–21–67, Cl. 95—11.5.

Peterson, Don W., J. J. Kovac, J. W. Calvin, and V. C. Puse, to The Goodyear Tire & Rubber Co. Airplane disc brake and key combination. 3,345,109, 10–3–67, Cl. 301—6.

Peterson, Donald H., to J. A. and M. Rainsford, d.b.a. E-Z Products Co. Clip pack. 3,332,551, 7–25–67, Cl. 206—65.

Peterson, Donald W., to General Motors Corp. Turn signal system including impulse relays. 3,333,241, 7–25–67, Cl. 340—55.

Peterson, Donovan F., C. E. Rasmussen, and R. J. T. Harris, to U.S. Automatics Corp. Current switching arrangement to cutout the defective gas lamp upon failure. 3,345,538, 10–3–67, Cl. 315—125.

Peterson, Edgar M.: *See*—
Tidd, Edwin B., and Peterson. 3,307,859.

Peterson, Edward C., to Birdsboro Corp. Up-and-down shear. 3,316,788, 5–2–67, Cl. 83—375.

Peterson, Edwin F. Fitter for vibrating devices. 3,333,799, 8–1–67, Cl. 248—14.

Peterson, Edwin F. Rotary vibrator and mount therefor. 3,355,957, 12–5–67, Cl. 74—87.

Peterson, Edwin L.: *See*—
Ellert, Frederick J., Merriam, Peterson, and Tye. 3,327,-306.

Peterson Electronic Die Co., Inc.: *See*—
Peterson, Everett A., and Peterson. 3,360,417.

Peterson, Erich: *See*—
Magg, Alfred, Haessle, Schreiner, Liebel, Bredschneider, Buettner, Peterson, and Schrodt. 3,340,749.

Peterson, Eugene W.: *See*—
Webb, James E. 3,317,731.

Peterson, Evald O., to Compo Shoe Machinery Corp. Device for operating on shoe bottoms. 3,345,660, 10–10–67, Cl. 12—16.4.

Peterson, Everett A.: *See*—
Baermann, Walter P., Cooke, and Peterson. 3,301,394.

Peterson, Everett A. and H. W. Luggage. 3,295,643, 1–3–67, Cl. 190—41.

Peterson, Everett A. and H. W., to Peterson Electronic Die Co., Inc. Heat sealing machine for bonding flexible strips to thermoplastic surfaces. 3,360,417, 12–26–67, Cl. 156—380.

Peterson, Floyd V. Electrical precipitator apparatus of the liquid spray type. 3,331,192, 7–18–67, Cl. 55—107.

Peterson, Garland R.: *See*—
Peterson, Richard A. and G. R. 3,320,895.

Peterson, George C.: *See*—
Huber, Walter G., and Peterson. 3,320,652.

Peterson, George J., to Swift & Co. Flameproofing composition, method and article containing same. 3,305,431, 2–21–67, Cl. 161—232.

Peterson, Glen. Means for improving the traction of wheeled vehicles. 3,335,776, 8–15–67, Cl. 152—222.

Peterson, Gudmundur P., and B. W. Lees, to United Aircraft of Canada Ltd. Protection for aircraft engines against snow, ice, and airborne particles. 3,329,377, 7–4–67, Cl. 244—53.

Peterson, Harold B. Folding and swinging hydraulic boom. 3,295,705, 1–3–67, Cl. 214—132.

Peterson, Harold M.: *See*—
Pfeiffer, Joseph J., and Peterson. 3,312,432.

Peterson, Harold W.: *See*—
Peterson, Everett A. and H. W. 3,295,643.
Peterson, Everett A., and H. W. 3,360,417.

Peterson, Harry L. Fluid pressure system for use in controlling steering of outboard motors and the like. 3,358,564, 12–19–67, Cl. 91—375.

Peterson, Henry J., to Sun Oil Co. Oxidation of tertiary-butyl groups attached to an aromatic ring to form the corresponding aromatic carboxylic acid. 3,296,280, 1–3–67, Cl. 260—346.4.

Peterson, Herbert E. Electrical resistance heating apparatus. 3,311,734, 3–28–67, Cl. 219—50.

Peterson, Herbert J., to United States Steel Corp. Apparatus for picking up and rolling pipe lengths while traveling sidewise on chain conveyor. 3,310,154, 3–21–67, Cl. 198—33.

Peterson, Horthun L., 33⅓% to Peterson Stamping and Mfg. Co., Small Lot Stamping Co., and Peterson Bros. Mfg. Co. Punch press ram structure. 3,301,112, 1–31–67, Cl. 83—137.

Peterson, Howard. Traction mat and wheel chock for automotive vehicles. 3,357,639, 12–12–67, Cl. 238—14.

Peterson, J. Charles: *See*—
Severson, Sylvester B. 3,311,042.

Peterson, Jack C., to Package Products Co., Inc. Method of forming merchandise container. 3,308,722, 3–14–67, Cl. 93—35.

Peterson, James H.: *See*—
Hodge, Edwin S., and Peterson. 3,328,139.
Hodge, Edwin S., Peterson, and Tassin. 3,340,053.

Peterson, James L. Patient controlled power operated kit for hospital bed. 3,311,933, 4–4–67, Cl. 5—66.

Peterson, James L., to The Joyce Corp. Process for preparing a protective coating. 3,359,181, 12–19–67, Cl. 106—14.

Peterson, Janet B., and M. Dexter, to Geigy Chemical Corp. Alkyl-4-hydroxy-phenyl carbamates. 3,303,211, 2–7–67, Cl. 260—471.

Peterson, John A.: *See*—
Dexter, Theodore H., and Peterson. 3,316,060.

Peterson, John A., to Hooker Chemical Corp. Purification of phosphorus-containing solutions. 3,305,304, 2–21–67, Cl. 23—107.

Peterson, John A., to Hooker Chemical Corp. Process for producing anhydrous ammonium bifluoride from an aqueous solution of ammonium fluoride. 3,310,369, 3–21–67, Cl. 23—88.

Peterson, John A., and R. G. Hartig, to Hooker Chemical Corp. Purification of phosphate solutions. 3,305,305, 2–21–67, Cl. 23—107.

Peterson, John A., J. J. Wylegala, J. T. Rucker, and L. E. Tufts, to Hooker Chemical Corp. Recovery of substantially anhydrous hydrogen fluoride from an impure aqueous ammonium fluoride solution. 3,338,673, 8–29–67, Cl. 23—153.

Peterson, John C.: *See*—
Crane, Walton B., and Peterson. 3,318,204.

Peterson, John D., to Avco Corp. Aid to striking an electric arc. 3,343,033, 9–19–67, Cl. 315—111.

Peterson, John L., and J. C. Tirrell, to Teletype Corp. Sequence detection circuit. 3,345,615, 10–3–67, Cl. 340—172.5.

Peterson, Joseph C. Pickling inhibitor composition. 3,312,625, 4–4–67, Cl. 252—149.

Peterson, Joseph C. Additive for stainless steel pickling baths. 3,349,037, 10–24–67, Cl. 252—146.

Peterson, Kail R.: *See*—
Roecks, Carl C., Jr., and Peterson. 3,331,563.

Peterson, Laverne R., to Sperry Rand Corp. Multi-tape transport assembly. 3,321,752, 5–23–67, Cl. 340—174.1.

Peterson, Loren N., to Salina Mfg. Co., Inc. Construction for Y-shaped valves, couplings or the like. 3,319,650, 5–16–67, Cl. 137—561.

Peterson, Loren W., to Sperry Rand Corp. Connector assembly. 3,315,212, 4–18–67, Cl. 339—75.

Peterson, Lowell H.: *See*—
Farquhar, Melville T., and Peterson. 3,326,444.

Peterson Machine Tool, Inc.: *See*—
Lambert, James H. 3,354,556.

Peterson, Marvin L., to E. I. du Pont de Nemours and Co. 2,3-bis(difluoroamino)-1,4-dicyanobutane. 3,347,898, 10–17–67, Cl. 260—465.5.

Peterson, Max E.: *See*—
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Peterson, Melvin N. A., to The Regents of the University of California. Ultrasonic sieving. 3,305,481, 2–21–67, Cl. 210—19.

Peterson, Nils O. A. Apparatus for inoculation against smallpox and the like having means for vibrating and heating a needle. 3,308,823, 3–14–67, Cl. 128—253.

Peterson, Olav, to Northern Electric Co. Ltd. Floating back diode limiter. 3,321,642, 5–23–67, Cl. 307—88.5.

Peterson, Oscar A., to Mid-Century Corp. Connections for alloy lined vessels. 3,349,951, 10–31–67, Cl. 220—63.

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Peterson, Raymond L.: *See*—
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Peterson, Rehn C., and V. F. Rana, to T.W. & C.B. Sheridan Co. Book trimmer or the like. 3,340,758, 9–12–67, Cl. 83—697.

Peterson, Reino A., to The Bunting Brass and Bronze Co. Combination bearing. 3,305,280, 2–21–67, Cl. 308—35.

Peterson, Reino A., to The Bunting Brass and Bronze Co. Self-aligning bearing. 3,318,642, 5–9–67, Cl. 308—26.

Peterson, Richard A. and G. R. Spraying apparatus with pump and motor adjustment. 3,320,895, 5–23–67, Cl. 103—57.

Peterson, Richard H., to Columbia Records Distribution Corp. Electrical musical instruments. 3,316,341, 4–25–67, Cl. 84—1.24.

Peterson, Richard H. Electrical wiring. 3,320,489, 5–16–67, Cl. 317—119.

Peterson, Richard H. Electronic musical instrument. 3,328,507, 6–27–67, Cl. 84—1.26.

Peterson, Richard L., to Moeller Mfg. Co., Inc. Adjustable tamperproof closure. 3,295,712, 1–3–67, Cl. 220—24.5.

Peterson, Robert A., to Caterpillar Tractor Co. Accelerator system for multiple engine control. 3,296,885, 1–10–67, Cl. 74—478.

Peterson, Robert A., to Caterpillar Tractor Co. Controls for earthmoving scrapers connected in tandem. 3,339,658, 9–5–67, Cl. 180—14.

Peterson, Robert C. Load equalizer. 3,321,997, 5–30–67, Cl. 74—573.

Peterson, Robert J., to The Quaker Oats Co. Ice cream sandwich machine. 3,316,860, 5–2–67, Cl. 107—1.

Peterson, Robert J., and E. L. Coonrod, to American Can Co. Cartoning machine. 3,298,287, 1–17–67, Cl. 93—49.

Peterson, Robert M., to Scovill Mfg. Co. Power operated knife with adjustable blades. 3,303,563, 2–14–67, Cl. 30—272.

Peterson, Robert M., to Scovill Mfg. Co. Means for mounting a food mixer on a standard. 3,312,433, 4–4–67, Cl. 248—13.

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Peterson, Rodney E., and E. M. Sutphin, to Gulf Research & Development Co. Method for improving the quality of aromatic compounds. 3,310,594, 3–21–67, Cl. 260—672.

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Peterson, Roger W., and W. R. Black, to E. H. Sheldon & Co. Portable cabinet and service strip. 3,317,261, 5–2–67, Cl. 312—249.

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Peterson, Thomas F., deceased (by J. D. Drinko, and Central National Bank, coexecutors). Semi-insulating shielding for cables and the like and comprising discrete "floating" patches of semi-conductive material. 3,312,774, 4–4–67, Cl. 174—120.

Peterson, Thomas F. (deceased), J. D. Drinko, and Central National Bank of Cleveland, Ohio, coexecutors. Method and articles for splicing plastic pipe. 3,334,663, 8–8–67, Cl. 138—132.

Peterson, Thomas G. Disposable and collapsible storage and shipping container. 3,337,036, 8–22–67, Cl. 206—46.

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Peterson, Walter O., to Polarknown, Inc. Method of and means for information detection. 3,302,306, 2–7–67, Cl. 35—9.

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Peterson, Willard D., to American Potash & Chemical Corp. Process for producing thiophosphate esters. 3,336,422, 8–15–67, Cl. 260—975.

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Turpin, Charles H., and Klitzke. 3,295,744.
Pilolpovich, Donald, to North American Aviation, Inc. Fluorination of halooleflns. 3,346,652, 10–10–67, Cl. 260—653.
Pilon, Charles E., to Electrostatic Printing Corp. of America. Electrostatic printing wherein screen carries powder between loading and printing points. 3,340,802, 9–12–67, Cl. 101—114.
Pilot Co., Inc.: *See*—
Zavarella, Savin. 3,357,913.
Pilot Inc.: *See*—
Hicks, Paul E. 3,339,943.
Pilot, John S., and T. H. Wright, Jr., to Creative Packaging, Inc. Dispenser with indicating means. 3,332,575, 7–25–67, Cl. 221—8.
Pilot Research Corp.: *See*—
Berry, Clyde A. 3,310,966.
Berry, Clyde A. 3,356,272.
Piloty, Robert, D. Pabst, W. Thiele, and W. Bauer, deceased (by M. Bauer (nee Back), G. Degenkolb (nee Bauer), and B. Bauer, legal heirs), to International Standard Electric Corp. Circuit arrangement for processing parts of words in electronic computers. 3,316,538, 4–25–67, Cl. 340—172.5.
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Pimentel, Daniel R., to Texas Instruments Inc. Solenoid type relay with two piece housing held together with the coil. 3,323,086, 5–30–67, Cl. 335—202.
Pin, Pouw H., and A. Verkaik, to Nederlandse Organisatie Voor Toegenast-Natuurweten-Schappelijk Onderzoek Ten Behoene Van Nijverheid. Device and method for manufacturing elbow fittings from straight tubing. 3,328,996, 7–4–67, Cl. 72—301.
Pina, Raymond G. Adjustable leg assembly for furniture or the like. 3,309,051, 3–14–67, Cl. 248—188.5.
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Pinckaers, Balthasar H., to Honeywell Inc. Condition detecting apparatus. 3,299,361, 1–17–67, Cl. 328—6.
Pinckaers, Balthasar H., to Honeywell Inc. Triggering circuit for controlled rectifier system. 3,313,997, 4–11–67, Cl. 321—18.
Pinckaers, Balthasar H., to Honeywell Inc. SCR switching circuit. 3,319,152, 5–9–67, Cl. 323—22.
Pinckaers, Balthasar H., to Honeywell Inc. SCR bidirectional switch apparatus having variable impedance input control circuit. 3,328,606, 6–27–67, Cl. 307—88.5.
Pinckaers, Balthasar H., to Honeywell Inc. Semiconductor electronic timing circuit utilizing magnetic count core. 3,355,594, 11–28–67, Cl. 307—88.
Pincus, Seymour, and E. G. Krakauer, to Kay Mfg. Corp. Mold for casting polyurethane articles. 3,325,861, 6–20–67, Cl. 18—5.
Pincus, Seymour, and E. G. Krakauer, to Kay Mfg. Corp. Method for molding and transporting gel state foam. 3,327,029, 6–20–67, Cl. 264—45.
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House, William T., and Pine. 3,334,061.
Pine, Lloyd A., to Esso Research and Engineering Co. Condensation of carboxylic acids and olefins to produce esters. 3,299,110, 1–17–67, Cl. 260—410.9.

Pine, Lloyd A., to Esso Research and Engineering Co. Dehydration process using molybdenum sulfide. 3,342,879, 9–19–67, Cl. 260—643.
Pine, Lloyd A., H. G. Ellert, and H. V. Drushel, to Esso Research and Engineering Co. Direct production of esters from organic acids. 3,329,826, 7–4–67, Cl. 260—410.6.
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Pinel, Jacques, and J.-P. Mangin, to Compagnie Generale de Telegraphie Sans Fil. Linear travelling wave particle accelerator having spaced shaped apertures. 3,324,340, 6–6–67, Cl. 315—3.5.
Pines, Arthur N., and E. A. Zientek, to Union Carbide Corp. Silicone-silicate polymers as corrosion inhibitors. 3,312,622, 4–4–67, Cl. 252—75.
Pines, Arthur N., and E. A. Zientek, to Union Carbide Corp. Novel organosiloxane-silicate copolymers. 8,337,496, 8–22–67, Cl. 260—46.5.
Pines, Arthur N., and E. A. Zientek, to Union Carbide Corp. Novel organosiloxane-silicate copolymers. 3,341,469, 9–12–67, Cl. 252—389.
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Pines, Robert M., to Geigg Chemical Corp. Stabilization of polyolefins with N,N-disubstituted glycine. 3,335,108, 8–8–67, Cl. 260—45.8.
Pines, Robert M., to Geigg Chemical Corp. Stabilization of polyolefins with certain polyalkylene polyamine N-polyacetic acids. 3,335,109, 8–8–67, Cl. 260—45.8.
Pines, Seemon H., to Merck & Co., Inc. Process for introduction of a hydroxyalkyl substituent at the 17 position in sterold compounds. 3,303,205, 2–7–67, Cl. 260—397.5.
Pines, Seemon H., to Merck & Co., Inc. Process for separating neomycin B from neomycin C. 3,329,566, 7–4–67, Cl. 167—65.
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Pinkava, Jan, to Ceskoslovenská akademie věd. Endless, helical fibre, filtration centrifuge. 3,358,840, 12–19–67, Cl. 210—370.
Pinke, August H., to H. D. Hudson Mfg. Co. Thrustless spray control valve. 3,343,795, 9–26–67, Cl. 239—152.
Pinke, August H., to H. D. Hudson Mfg. Co. Dual actuated spray control valve. 3,343,804, 9–26–67, Cl. 251—241.
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Pinkerton, Martin L., and O. Duderstadt. Vehicle-mounted electric gun lock. 3,326,385, 6–20–67, Cl. 211—4.
Pinkham, Jesse R., to R. J. Reynolds Tobacco Co. Disassembling apparatus for cigarette and filter assemblies. 3,345,991, 10–10–67, Cl. 131—20.
Pinkham, Jesse R., to American Machine & Foundry Co. Cigarette making machine. 3,348,551, 10–24–67, Cl. 131—84.
Pinkham, Jesse R., and J. R. Everhart, to R. J. Reynolds Tobacco Co. Apparatus for rearranging randomly oriented elongated articles into endwise orientation. 3,339,703, 9–5–67, Cl. 198—33.
Pinkney, Charles C., to Wire King Products, Inc. Bar clip. 3,359,019, 12–19–67, Cl. 287—50.
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Mahaffy, Reid A., Harder, and Pinney. 3,343,333.
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Pino, Manuel A., to Chevron Research Co. Process for preparing polysiloxane mixtures. 3,320,297, 5–16–67, Cl. 260—448.8.
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Pino, Piero, and G. P. Lorenzi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for preparing olefinic compounds. 3,296,328, 1–3–67, Cl. 260—681.
Pino, Piero, G. Braca, and G. Sbrana, to Lonza, Ltd. Preparation of hydroquinone. 3,355,503, 11–28–67, Cl. 260—621.
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Pintell, Milton H., to Intron International, Inc. Electric capacitor. 3,311,801, 3–28–67, Cl. 317—258.
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Pinter, Henry J., 25% to G. E. Schick. Welded conductors to carbon and graphite cloth. 3,356,468, 12–5–67, Cl. 29—195.
Pinter, Joseph, Jr. Removable lip for a container. 3,356,266, 12–5–67, Cl. 222—192.
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Pinto, Emilio G. Auditorium with a ring of seats and a plurality of screens. 3,313,068, 4–11–67, Cl. 52—8.
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Piotrowski, Norman C., to Allis-Chalmers Mfg. Co. Two-phase disk contactor. 3,305,224, 2–21–67, Cl. 261—92.
Piotrowski, Tadeusz. Method and apparatus for manufacturing by expansion-molding articles in thermoplastic material. 3,339,231, 9–5–67, Cl. 18—5.
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Haws, Ernest R., and Piper. 3,341,985.
Piper, Bert W., to Robert Haws Co. Portable room dividing panel. 3,341,992, 9–19–67, Cl. 52—127.
Piper, Joseph C. Locking device. 3,326,023, 6–20–67, Cl. 70—156.
Piper, Melvin E. Method and apparatus for aligning the front wheels of an automobile. 3,346,965, 10–17–67, Cl. 33—203.14.
Piper, Roger D., to United States of America, Atomic Energy Commission. Electrolytic reduction of uranium hexafluoride to uranium metal in fused salt. 3,330,742, 7–11–67, Cl. 204—1.5.
Pipes, George E. Vertical tail stock support. 3,319,527, 5–16–67, Cl. 90—23.
Pippen, Henry H. Fishing weight assembly. 3,341,966, 9–19–67, Cl. 43—43.15.
Pippin, Calvin C., 28% to E. E. Bernard. Craniotomy instrument. 3,308,828, 3–14–67, Cl. 128—310.
Pippin, Reginald F., Jr., and B. Levine. Terminal protector arrangement. 3,332,051, 7–18–67, Cl. 339—93.
Pirat, Claude, to Service d'Exploitation Industrielle des Tabacs et des Allumetes. Device for reversing pieces of tobacco-leaves employed for rolling cigars. 3,358,707, 12–19–67, Cl. 131—105.
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Pircio, Anthony W., and C. S. Krementz, to Bristol-Myers Co. Compositions and method for simulating the central nervous system. 3,351,528, 11–7–67, Cl. 167—65.

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Pirie, Jean. Menstrual device. 3,298,369, 1–17–67, Cl. 128—285.

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Pirogow, Igor A. Perspective drawing device and combination of perspective and parallel drawing device. 3,300,863, 1–31–67, Cl. 33—77.

Pirogow, Igor A. Perspective drawing device and combination of perspective and parallel drawing device. 3,318,003, 5–9–67, Cl. 33—77.

Ptros, John J., to Sinclair Research, Inc. Pump apparatus. 3,315,606, 4–25–67, Cl. 103—37.

Piroutek, Miroslav J., to AEL Development and Research Division, Inc. High speed system for spacing and timing the delivery of moving articles. 3,297,135, 1–10–67, Cl. 198—34.

Pirrie, Norman D., and J. Bland, to Economic Foundations Ltd. Tunnel boring machine having rotation control responsive to advance pressure. 3,301,598, 1–31–67, Cl. 299—1.

Pirrie, Norman D., and J. Bland, to Economic Foundations Ltd. Tunnel machine having reversible boring head. 3,301,600, 1–31–67, Cl. 299—33.

Pirtle, Mabel. Method of cooking poultry. 3,307,955, 3–7–67, Cl. 9[illegible]—107.

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Pischke, Harry F., and N. Vann, Jr., to Harmony of Fort Lauderdale, Inc. IF carrier FM transmission system. 3,334,300, 8–1–67, Cl. 325—45.

Pisciotta, Frank, to Sperry Rand Corp., Ford Instrument Co. Div. Concave disk acceleration integrator. 3,355,951, 12–5–67, Cl. 73—503.

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Piskator, Bengt I., to United States of America, Army. Double-sear device for a forward moving barrel machine gun mounted for differential recoil. 3,353,447, 11–21–67, Cl. 89—27.

Piskator, Bengt I., and W. S. Draper, to United States of America, Army. Sear lock and release mechanism for differential recoil guns. 3,331,283, 7–18–67, Cl. 89—42.

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Lerner, Daniel, and Pispisa. 3,337,643.

Pistey, John, and W. E. Strang, to Harvey Hubbell Inc. Electrical power center. 3,343,041, 9–19–67, Cl. 317—99.

Pistey, John M., to General Electric Co. Electrical connector. 3,324,447, 6–6–67, Cl. 339—95.

Pistey, John M., to General Electric Co. Electric connector with torsion contacts. 3,337,837, 8–22–67, Cl. 339—53.

Pistey, John M., to General Electric Co. Snap-in fluorescent lampholders with quick-connect terminals. 3,351,883, 11–7–67, Cl. 339—52.

Pistey, John M., to General Electric Co. Lampholders for electric discharge lamps. 3,351,884, 11–7–67, Cl. 339—52.

Pistey, John M., and W. Vermeulen, to General Electric Co. Lampholder with improved mounting means. 3,328,577, 6–27–67, Cl. 240—51.11.

Pistilli, Angelo, and P. Susin, to Societa Italiana Telecomunicazioni Siemens S.p.A. Nonreciprocal ferrite device having a thin dielectric layer encircling the ferrite element. 3,350,664, 10–31–67, Cl. 333—1.1.

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Pistone, John C. Leveling device for automotive vehicles and the like. 3,353,839, 11–21–67, Cl. 280—104.

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Pitches, Brian E., to Ferranti Ltd. Apparatus for indicating the departure of a variable quantity from a datum value. 3,355,706, 11–28–67, Cl. 340—27.

Pitches, Brian E., and D. Hope, to Ferranti, Ltd. Airflow direction indicators. 3,350,935, 11–7–67, Cl. 73—188.

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Pitchford, Armin C., to Phillips Petroleum Co. Asphalt emulsion-sulfate liquor soil stabilization mixture. 3,345,193, 10–3–67, Cl. 106—123.

Pitchford, Armin C., and H. J. Sarrett, Jr., to Phillips Petroleum Co. Paving asphalt containing chlorinated polyethylene. 3,312,649, 4–4–67, Cl. 260—28.5.

Pitchford, Arthur H. Steerable load-carrying vehicle. 3,295,622, 1–3–67, Cl. 180—9.22.

Pitchford, Arthur H. Amphibious vehicle. 3,299,849, 1–24–67, Cl. 115—1.

Pitchford, Arthur H. Amphibious vehicle. 3,306,250, 2–28–67, Cl. 115—1.

Pither, Leslie F., to Owens-Illinois, Inc. Molded semi-vitreous article and method of making same. 3,318,713, 5–9–67, Cl. 106—54.

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Pitkethly, Robert C., J. F. Ford, and A. Fisher, to The British Petroleum Co., Ltd. Double bond isomerization of olefins using anhydrous metal sulfate catalysts. 3,301,916, 1–31–67, Cl. 260—683.2.

Pitkowsky, Stanley H., and R. B. Godfrey, to International Business Machines Corp. Parity checking and parity generating means for binary adders. 3,342,983, 9–19–67, Cl. 235—153.

Pitman, Bradford D. Weather-resistant wearing apparel. 3,312,982, 4–11–67, Cl. 2—232.

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Pitman, Raymond F., D. E. Broderson, and H. W. Gronemeyer, Jr., to Pitman Mfg. Co. Hole digger and derrick apparatus. 3,306,373, 2–28–67, Cl. 173—28.

Pitner, Alfred, to Nadella S.A. Thrust bearings. 3,317,014, 5–2–67, Cl. 192—98.

Pitner, Alfred, ½ to Nadella S.A. Combined journal and thrust bearing. 3,341,263, 9–12–67, Cl. 308—174.

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Pitt, Harold M.: *See*—
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Pitt, Harold M., and H. Bender, to Stauffer Chemical Co. Dichloromethanedisulfenyl chloride and its preparation. 3,331,872, 7–18–67, Cl. 260—543.

Pitt, Harold M., and H. Bender, to Stauffer Chemical Co. Method for the purification of bis(4 chlorophenyl)sulfone. 3,334,146, 8–1–67, Cl. 260—607.

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Pitt, Paul E., to Duncan Electric Co., Inc. Transient insensitive photoelectric impulse device for use with watt-hour meter to actuate demand recorder. 3,311,824, 3–28–67, Cl. 324—103.

Pitt, Solomon H., to Sperry Rand Corp. Record transport system. 3,311,369, 3–28–67, Cl. 271—45.

Pitt, Solomon H. High speed printing device with reciprocable type bar. 3,342,127, 9–19–67, Cl. 101—93.

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Pittendreigh, William M., and D. W. Kern, to Riegel Textile Corp. Noncorrugating diaper. 3,330,283, 7–11–67, Cl. 128—284.

Pittenger, Evan W., and J. W. Edwards, to Monsanto Co. Ink delivery system for electrostatic stencilling device. 3,339,483, 9–5–67, Cl. 101—114.

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Platt, Raymond V., and D. M. Delgado, to R. V. Platt and D. Delgado. Light actuated portable remote TV control device. 3,325,593, 6–13–67, Cl. 178—6.

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Platus, David L., F. A. Marovich, and P. J. Cunningham; said Marovich assor. to Ara, Inc. Energy absorbing device. 3,360,080, 12–26–67, Cl. 188—1.

Platus, David L., F. A. Marovich, and P. J. Cunningham; said Marovich assor. to Ara, Inc. Energy absorbing device. 3,360,081, 12–26–67, Cl. 188—1.

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Pollock, James R. A., and H. F. P. Webber, to Arthur Guinness Son & Co. (Dublin) Ltd. Accelerated batch process for the fermentation of brewers wort. 3,345,179, 10–3–67, Cl. 99—81.

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Prevorsek, Dusan C., to The Goodyear Tire & Rubber Co. Polyester resins stabilized with thiophosphate esters. 3,300,440, 1–24–67, Cl. 260—45.7.

Prevost, Alfred L.: *See*—
Levine, Charles A., and Prevost. 3,351,487.

Prevost, Camilla: *See*—
Charles, Pierre, Prevost, and Testard. 3,326,244.
Charles, Pierre, Prevost, and Testard. 3,344,803.

Prevost, Henri M., to Societe Anonyme dite: Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber Columbes. Outer casings for pneumatic tires. 3,310,094, 3–21–67, Cl. 152—361.

Prevue Display Services, Inc.: *See*—
Drueck, Fred, Jr. 3,315,389.

Preway, Inc.: *See*—
Faehling, Francis L. 3,359,885.
Jenson, Kenneth S., and Suhr. 3,315,657.
Nelson, Averd G. 3,295,508.

Preziosi, Luigi M., and J. J. Zecca, to Westinghouse Electric Corp. Method of manufacturing double-ended electric lamps. 3,301,623, 1–31–67, Cl. 316—21.

Priaroggia, Paolo G., and V. Pignataro, to Pirelli Societa per Azioni Centro Pirelli. Self-sealing end caps for the impregnation of sheathed electric cables of the oil-filled type. 3,342,-162, 9–19–67, Cl. 118—50.

Pribnow, Hans-Hermann, to Brown, Boveri & Cie, Aktiengesellschaft. Bearing for vertical shaft. 3,338,645, 8–29–67, Cl. 308—160.

Pribyl, Edward J.: *See*—
Bernstein, Jack, Pribyl, and Krapcho. 3,330,823.

Pribyl, Edward J., and C. F. Turk, to E. R. Squibb & Sons, Inc. Production of 12-substituted-6,7,8,9,10,11-hexahydrocycloocta[b]quinolines. 3,318,895, 5–9–67, Cl. 260—286.

Pribyl, Edward J., and C. F. Turk, to E. R. Squibb & Sons, Inc. Production of 12-substituted-6,7,8,9,10,11-hexahydrocycloocta[b]quinolines. 3,318,896, 5–9–67, Cl. 260—287.

Pribyl, Edward J., and J. Bernstein, to E. R. Squibb & Sons, Inc. 2-substituted amino methylcyclooctyl esters of alkyl substituted acetic acid. 3,322,776, 5–30–67, Cl. 260—294.3.

Pribysh, Victor G.: *See*—
Pavlenko, Jury S., Vasiljev, Pribysh, Sigalov, Starostin, Tantsjura, Fridman, and Khodosko. 3,319,055.

Price, Albert E., to General American Transportation Corp. Railway hopper cars. 3,325,223, 6–13–67, Cl. 302—52.

Price, Alson K., and R. F. Sweeney, to Allied Chemical Corp. Production of perhalocyclohexanones. 3,350,457, 10–31–67, Cl. 260—586.

Price, Anthony J., The Estey Musical Instrument Corp. Vibrato construction for lute-type musical instruments. 3,326,-072, 6–20–67, Cl. 84—313.

Price, Arthur: *See*—
Wing, James C., and Price. 3,297,452.

Price Bros. Co.: *See*—
Osweiler, Paul L. 3,338,601.
Toadvine, Glen W. 3,322,457.

Price Bros. Co., Inc.: *See*—
Smith, Warner B., and Keyser. 3,338,088.

Price, Charles R.: *See*—
Gronholz, LeRoy F., Owens, and Price. 3,310,860.

Price, Clifford W., to Phillips Petroleum Co. Recovery of mercaptans from alkaline solutions. 3,336,395, 8–15–67, Cl. 260—609.

Price, David B., to Westinghouse Electric Corp. Cord control mechanism. 3,332,637, 7–25–67, Cl. 242—107.2.

Price, David B., to Westinghouse Electric Corp. Food mixer. 3,356,344, 12–5–67, Cl. 259—1.

Price, Don C., to The Monarch Rubber Co. Plate metal products with two-way extruded nuts. 3,358,546, 12–19–67, Cl. 85—32.

Price, Donald J., to Baird-Atomic, Inc. Manually operated sequential logarithmic spectrometer readout system. 3,337,-738, 8–22–67, Cl. 250—226.

Price, Douglas M. Adjustable irrigation dam. 3,355,896, 12–5–67, Cl. 61—29.

Price, Edison A.: *See*—
Sak, August, and Price. 3,352,428.
Sak, August B., and Price. 3,356,403.

Price, Eldon N., to Douglas Aircraft Co., Inc. Drogue for airspeed-calibration trailing static source. 3,310,257, 3–21–67, Cl. 244—1.

Price, Eugene W.: *See*—
Hanson, Glenn M., Frans, Helan, and Price. 3,301,659.
Hanson, Glenn M., Frans, Helan, and Price. 3,319,949.

Price, Frank B.: *See*—
Silver, Harold F., Steele, and Price. 3,323,948.
Silver, Harold F., Steele, and Price. 3,337,026.
Silver, Harold F., Steele, and Price. 3,351,295.

Price, Frederick: *See*—
Franek, Jozef T., and Price. 3,314,526.

Price, Gail A., to Farmer Bros. Co. Coffee brewing apparatus. 3,347,149, 10–17–67, Cl. 99—282.

Price, George B.: *See*—
Bray, John R., and Price. 3,334,814.
Bray, John R., and Price. 3,354,358.

Price, George B., to Monsanto Co. Relaxation oscillator modulated by another relaxation oscillator. 3,300,733, 1–24–67, Cl. 331—47.

Price, George E., to Westinghouse Electric Corp. Method of forming an electrical heating element. 3,330,034, 7–11–67, Cl. 29—611.

Price, Glenn R., and M. B. McClellan, to Stauffer Chemical Co. Controlling fungi with 1,2-dichlorovinyl hydroxyethyl sulfide. 3,345,255, 10–3–67, Cl. 167—22.

Price, Gordon L., to West Point-Pepperell, Inc. Self-actuating torque gripping device. 3,332,694, 7–25–67, Cl. 279—66.

Price, H. C., Co.: *See*—
Lane, Lee F. 3,343,081.

Price, Harold J.: *See*—
Jones, Robert E., Jr., and Price. 3,315,077.

Price, Herbert P., to Celanese Coatings. Diepoxide formed by the condensation of a monohydroxyallphatic monoglycidyl ether with a dialkyl ester of a carboxylic acid. 3,301,920, 1–31–67, Cl. 260—837.

Price, Herbert P., to Celanese Coatings Co., Inc. Epoxide resin compositions. 3,305,527, 2–21–67, Cl. 260—47.

Price, Herbert P., to Celanese Coatings Co. Production of composite glycidyl polyethers. 3,342,894, 9–19–67, Cl. 260—830.

Price, Herbert P., to Celanese Coatings Co. Process for preparing composite epoxide resins. 3,351,673, 11–7–67, Cl. 260—830.

Price, Herbert P., to Celanese Coatings Co. Preparation of glycidyl polyethers. 3,352,825, 11–14–67, Cl. 260—47.

Price, James C. Liquid sprayer. 3,321,110, 5–23–67, Cl. 222—389.

Price, James R.: *See*—
Wendler, Kenneth T., Spillman, Low, and Price. 3,330,-762.

Price, James R., to National Homes Corp. Gable and trim construction. 3,332,180, 7–25–67, Cl. 52—94.

Price, James R., R. C. Spillman, and K. T. Wendler, to Shell Oil Co. Lubricant compositions. 3,309,314, 3–14–67, Cl. 252—32.5.

Price, James W. Ticket and money holder. 3,360,027, 12–26–67, Cl. 150—39.

Price, James W., and J. M. Toth, Jr., to Douglas Aircraft Co., Inc. Method of making a metallic-lined pressure vessel. 3,321,347, 5–23–67, Cl. 156—151.

Price, Jerry L.: *See*—
Leach, Harry S., and Price. 3,338,982.

Price, John A., to Avisum Corp. Polymerization of olefins in the presence of a catalyst consisting of titanium trichloride, an alkyl aluminum dihalide and an alkoxy silane. 3,328,375, 6–27–67, Cl. 260—93.7.

Price, John A., and W. R. Watt, to Avisun Corp. Olefin polymerization in the presence of a catalyst comprising $TiCl_3RAlX_2$ and a chelate of an aluminum compound. 3,313,791, 4–11–67, Cl. 260—93.7.

Price, John F., to Statham Instruments, Inc. Telemetering circuits and amplifiers employed therein. 3,346,818, 10–10–67, Cl. 330—30.

Price, John M.: *See*—
Weed, William H., and Price. 3,357,801.

Price, John T.: *See*—
Groos, Francis D., Price, and Hopkins. 3,322,484.

Price, Kenneth E., and H. Schmitz, to Bristol-Myers Co. Peliomycin and method of preparing same. 3,345,261, 10–3–67, Cl. 167—65.

Price, Lewis C., Jr., to Control Print Corp. Marking head assembly for code marking machines. 3,340,804, 9–12–67, Cl. 101—375.

Price, Lewis C., Jr., to Control Print Corp. Side line bottom coder. 3,359,891, 12–26–67, Cl. 101—35.

Price, Lorenzo S.: *See*—
Buker, Harvey A., and Price. 3,359,355.

Price, Lowell T., and J. S. Scoggin, to Phillips Petroleum Co. Apparatus for solvent extraction of catalyst from polymer solid. 3,347,637, 10–17–67, Cl. 23—270.

Price, Luther A.: *See*—
Spragg, Hal R., Price, and Wooldridge. 3,352,238.

Price, Merton: *See*—
Gomez, Richard R., and Price. 3,302,828.

Price, Michael S. T.: *See*—
Bentolila, Jacques, Dubief, and Price. 3,322,866.

Price, Nathan A., Jr., to Henderson, Lindsay & Michaels, Inc. Production control device. 3,305,958, 2–28–67, Cl. 40—68.

Price, Paul B., and R. M. Walker, to General Electric Co. Molecular sieves and methods for producing same. 3,303,-085, 2–7–67, Cl. 161—109.

Price, Paul B., and R. M. Walker, to General Electric Co. High level radiation dosimeter having a sheet which is permeable to damage track producing particles. 3,335,278, 8–8–67, Cl. 250—83.1.

Price, Peter: *See*—
Pennington, William, Price, and Yu. 3,354,706.

Price-Pfister Brass Mfg. Co.: *See*—
Dornaus, Reinert F. 3,324,884.
Lyon, John K. 3,312,402.

Price, Ralph E.: *See*—
Fries, John R., Price, and Boller. 3,303,614.

Price, Ralph E., to Landes Tool Co. Adjustable throw crank clamping fixtures. 3,334,449, 8–8–67, Cl. 51—237.

Price, Ralph E., and E. R. Dunn, to Landis Tool Co. Spindle aligning indicator. 3,299,581, 1–24–67, Cl. 51—165.

Price, Ralph E., and W. P. Flohr, Jr., to Landis Tool Co. Impregnated indexing roller for grinding wheel dressers. 3,313,285, 4–11–67, Cl. 125—11.

Price, Raymond: *See*—
Bartos, Donald M., and Price. 3,344,385.
Johnson, Alan, Mack, and Price. 3,356,671.

Price, Richard H., and C. R. Jarrett, to Saunders Valve Co. Ltd. Diaphragm valve actuator construction. 3,298,660, 1–17–67, Cl. 251—331.

Price, Robert E.: *See*—
Bahls, Gene C., McNutt, Price, Zidell, and Dick. 3,348,-673.

Price, Robert J.: *See*—
Bokros, Jack C., Goeddel, Chin, and Price. 3,298,921.

Price, Robert J. Load weight indicator installation for cranes, derricks and the like. 3,339,652, 9–5–67, Cl. 177—136.

Price, Robert L.: *See*—
Echavarren, Luis A. 3,325,093.

Price, Robert L., to Minnesota Mining and Mfg. Co. Feedback modulator oscillator. 3,334,316, 8–1–67, Cl. 332—14.

Price, Robert W., to Westinghouse Electric Corp. Electrically operated switch having improved armature and linkage means. 3,309,636, 3–14–67, Cl. 335—155.

Price, Robert W., and R. A. Few, to Westinghouse Electric Corp. Circuit-controlling systems. 3,317,791, 5–2–67, Cl. 317—22.

Price, Rudolph N. Washing machine and valve therefor. 3,353,545, 11–21–67, Cl. 134—95.

Price, Russell W. Conductive covering for shoes. 3,296,490, 1–3–67, Cl. 317—2.

Price, Russell W., to H. Zimmon. Conductive covering for shoes. 3,359,658, 12–26–67, Cl. 36—7.1.

Price-Stephens, Douglas, to The Ford Motor Co. Motor vehicle suspension. 3,333,654, 8–1–67, Cl. 180—73.

Price, Tom B., to Texaco Inc. Off-shore drilling. 3,324,943, 6–13–67, Cl. 166—.6.

Price, Warren H., to Jacobsen Mfg. Co. Power unit and implement attachment. 3,334,429, 8–8–67, Cl. 37—43.

Price, William: *See*—
Newman, Ellis, and Price. 3,328,937.

Price, William B. Floor treating apparatus. 3,344,453, 10–3–67, Cl. 15—50.

Price, William H., to Eastman Kodak Co. Zoom lens. 3,330,-615, 7–11–67, Cl. 350—187.

Price, William H., to Eastman Kodak Co. Zoom objective. 3,348,899, 10–24–67, Cl. 350—184.

Price, William L., and H. E. Dykeman, to Dravo Corp. Barge unloader. 3,356,232, 12–5–67, Cl. 214—14.

Price, William R., to Flexitallic Co. Multiple passage gasket. 3,336,035, 8–15–67, Cl. 277—204.

Pricenski, Theodore J.: *See*—
Menelly, Richard A., and Pricenski. 3,356,883.

Pricer, Wilbur D., to International Business Machines Corp. Fundamental frequency detection system. 3,304,505, 2–14–67, Cl. 328—139.

Prichard, Galen C. Combination stripper and blowout preventer. 3,328,040, 6–27–67, Cl. 277—73.

Prichard, Roy, to International Telephone and Telegraph Corp. High-speed all-relay pulse counter. 3,348,204, 10–17–67, Cl. 340—168.

Prichard, William W., to E. I. du Pont de Nemours and Co. Method of reducing the severity of influenza virus infections. 3,317,387, 5–2–67, Cl. 167—65.

Prichard, William W., to E. I. du Pont de Nemours and Co. Adamantanes and tricyclo [4.3.1.1.3.8] undecanes. 3,352,-912, 11–14–67, Cl. 260—563.

Prichodjko, Alexander, to Telefunken Patenverwertungs-G.m.b.H. Navigation system. 3,316,550, 4–25–67, Cl. 343—15.

Prichodjko, Alexander, to Telefunken Patentverwertungs-G.m.b.H. Navigation and position plotting system. 3,328,565, 6–27–67, Cl. 235—150.27.

Prichodjko, Alexander, A. Simianer, and H. Hipp, to Telefunken Patentverwertungs G.m.b.H. Navigation and position finding system, operating on the transit time principle, for producing parallel positional planes. 3,303,500, 2–7–67, Cl. 343—103.

Prickett, Alexander W.: *See*—
Jones, Richard S., and Prickett. 3,301,342.

Prickett, Jack A.: *See*—
Fayling, Clarence D., and Prickett. 3,343,783.

Prickett, Robert L., and K. S. Mazdiyasni. An adjustable offset collimator for use on X-ray powder cameras. 3,310,675, 3–21–67, Cl. 250—105.

Prickett, Robert L., J. R. Fenter, and V. R. Robinson, to United States of America, Air Force. Universal X-ray crystallography camera with specific means for movably supporting a specimen in the X-ray beam path. 3,340,396, 9–5–67, Cl. 250—51.5.

Prickett, Robert L., T. P. Janus, and W. A. Wolk, to United States of America, Air Force. X-ray crystallography camera having plural nested rotatable eccentric sleeves in one wall through which a tiltable specimen holder extends. 3,350,-560, 10–31–67, Cl. 250—51.5.

Prickett, Tom, Jr.: *See*—
Woods, John P., Dransfield, and Prickett. 3,328,754.
Woods, John P., Neitzel, and Prickett. 3,303,459.
Woods, John P., Neitzel, and Prickett. 3,345,499.
Woods, John P., Prickett, Mullings, and Lyons. 3,303,-513.

Prickett, Tom, Jr., and J. P. Woods, to Atlantic Refining Co. Method and means for eliminating crossover frequencies from a continuous wave seismogram. 3,303,458, 2–7–67, Cl. 340—15.5.

Priddy, Francis M. Angularly swingable and laterally adjustable tractor hitches. 3,343,849, 9–26–67, Cl. 280—412.

Priddy, Jack N., to General Motors Corp. Connecting rotor coil leads to slip rings by using tubular, rotor containing terminals. 3,355,801, 12–5–67, Cl. 29—598.

Pridham, Donald C., Jr., to Robertshaw Controls Co. Washing machine system or the like. 3,306,411, 2–28–67, Cl. 192—135.

Pridham, Donald C., Jr., to Robertshaw Controls Co. Bellows actuator. 3,319,532, 5–16–67, Cl. 92—34.

Priebe, Edward P.: *See*—
Cooper, David, Priebe, and Zeccola. 3,335,349.

Priebe, Norman F., to Sperry Rand Corp. System for data communication by phase shift of square wave carrier. 3,335,369, 8–8–67, Cl. 325—30.

Priebs, Horst, to Anker-Werke Aktiengesellschaft. Friction gear drive for the paper carriage of a business machine. 3,312,323, 4–4–67, Cl. 197—176.

Priem, Anthonius J. M.: *See*—
Brinck, Ernst J., and Priem. 3,339,338.

Priesing, Charles P., and S. Mogelnicki, to The Dow Chemical Co. Process for dewatering an aqueous suspension of organic waste solids. 3,300,407, 1–24–67, Cl. 210—53.

Priesmeyer, Charles, and G. G. Prosen, to Meyer & Wenthe, Inc. Embossing seal press. 3,313,231, 4–11–67, Cl. 101—3.

Priest, William J., to Eastman Kodak Co. Nucleated vesicular film. 3,355,295, 11–28–67, Cl. 96—91.

Priestas, Edward: *See*—
Reichert, Arlen I., and Priestas. 3,313,112.

Priestley, Eric. Aircraft take-off systems. 3,295,369, 1–3–67, Cl. 73—178.

Priestley, Eric, and A. E. Hodson, to Elliott Bros. (London) Ltd. Aircraft structural stress alleviators. 3,347,498, 10–17–67, Cl. 244—77.

Priestley, Hill M., to Lever Bros. Co. N,N-bis(2-hydroxyethyl) higher alkyl amine oxides. 3,324,183, 6–6–67, Cl. 260—584.

Priestley, Hill M., to Lever Bros. Co. Tertiary phosphine oxides. 3,331,878, 7–18–67, Cl. 260—606.5.

Priestley, Hill M., and J. H. Wilson, to Lever Bros. Co. Detergent compositions. 3,317,430, 5–2–67, Cl. 252—152.

Priestley, Richard T.: *See*—
Opfer, Waldo V., Jr., and Priestley. 3,333,793.

Priestley, Ronald. Heat exchanger apparatus. 3,349,839, 10–31–67, Cl. 165—3.

Prieto, Agustin: *See*—
Marnati, Maria P., Prieto, and Spalla. 3,330,737.

Prietzel, Horst: *See*—
Kaess, Franz, Prietzel, and Scheinost. 3,357,980.

Prietzschk, Artur: *See*—
Koch, Otto, Prietzschk, Reichle, and Zygan. 3,327,033.
Von Falkai, Bela, Prietzschk, Rellensmann, Reichle, and Wieden. 3,306,878.

Prieur, Hubertus, to The McKay Machine Co. Methods of and apparatus for forming tubular members. 3,348,399, 10–24–67, Cl. 72—97.

Priewe, Hans, and K. Gutsche, to Schering A. G. Certain derivatives of 2-amino-5-alkoxypyrimidine. 3,331,841, 7–18–67, Cl. 260—256.4.

Prijn, Cornelis, to North American Phillips Co. Inc. Method of providing tubular lamps. 3,323,855, 6–6–67, Cl. 316—17.

Prilezhaeva, Elena N.: *See*—
Sharf, Vladimir Z., Freidlin, and Prilezhaeva. 3,333,006.

Prill, Erhard J.: *See*—
Wygant, James C., Anderson, and Prill. 3,317,568.
Wygant, James C., and Prill. 3,360,544.
Wygant, James C., Prill. Carter, and Kucia. 3,360,546.

Prill, Erhard J., to Monsanto Co. Process of preparing amino-5-triazines. 3,328,399, 6–27–67, Cl. 260—249.5.

Prillinger, Hans, and K. Wanitschka. Self-coupling tractor-trailer hitch. 3,356,388, 12–5–67, Cl. 280—479.

Prime Mfg. Co., The: *See*—
Morgan, James I. 3,359,024.

Primeau, Richard E.: *See*—
Bienenfeld, Norman, Abedon, Primeau, and Blackman. 3,307,294.

Primm, George M. Sewer rod attachment for drill. 3,317,943, 5–9–67, Cl. 15—104.3.

Primoff, Eugene H. Device for loosening a window sash from the frame. 3,331,586, 7–18–67, Cl. 254—123.

Primus Mfg., Inc.: *See*—
Hodge, Merville E. 3,311,985.
Jenks, Frederick P., and Williams. 3,307,265.

Prince, Andrew J. Cylindrical telephone directory. 3,358,396, 12–19–67, Cl. 40—68.

Prince, Arthur E., and H. L. Kaune, to Otis Elevator Co. Elevator car position indicator. 3,328,756, 6–27–67, Cl. 340—21.

Prince, David C. Sorting device for code bearing articles. 3,355,016, 11–28–67, Cl. 209—74.

Prince, Donald H.: *See*—
Harrison, Geoffrey G., and Prince. 3,297,561.

Prince Gardner Co., Inc.: *See*—
Shepherd, Paul C. 3,309,905.

Prince Jidosha Kogyo Kabushiki-Kaisha: *See*—
Mizuno, Yukio, and Tanaka. 3,297,057.

Prince, John F. Safety device for grinding heads. 3,334,450, 8–8–67, Cl. 51—241.

Prince, Michael J., and A. E. Timbs, to Societe Anglo-Belge Vulcain S.A. Nuclear fuel assembly. 3,298,922, 1–17–67, Cl. 176—78.

Prince, Michael J., and G. D. Ainsworth, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,346,459, 10–10–67, Cl. 176—36.

Prince, Nickolas, Jr.: *See*—
Fowler, Robert L., and Prince. 3,307,155.

Prince, Richard. Fluid applicator for feed products. 3,359,942, 12–26–67, Cl. 118—303.

Prince-Smith and Stells Ltd.: *See*—
Barrett, Walter. 3,313,097.

Princeton Applied Research Corp.: *See*—
Brault, James W. 3,296,463.
Brault, James W. 3,296,464.
Coor, Thomas. 3,339,414.

Princeton Chemical Research, Inc.: *See*—
Bergman, Richard I. 3,353,334.
McMahon, Joseph F. 3,328,428.
Shepherd, Thomas H. 3,326,742.

Princevalle, Peter. Portable lid holder. 3,326,387, 6–20–67, Cl. 211—41.

Principe, Pacifico A.: *See*—
Diassi, Patrick A., and Principe. 3,316,157.
Diassi, Patrick A., and Principe. 3,316,281.
Diassi, Patrick A., and Principe. 3,320,290.
Diassi, Patrick A., and Principe. 3,344,159.
Diassi, Patrick A., and Principe. 3,351,640.
Diassi, Patrick A., and Principe. 3,359,179.
Levine, Seymour D., and Principe. 3,324,172.
Levine, Seymour D., and Principe. 3,346,616.
Pan, Samuel C., Lerner, Principe, and Junta. 3,324,153.

Principe, Pacifico A., and P. A. Diassi, to W. R. Squibb & Sons Inc. Norsteroids. 3,296,295, 1–3–67, Cl. 260—488.

Principe, Pacifico A., and S. D. Levine, to E. R. Squibb & Sons, Inc. 11,17-oxygenated A-norprogesterones. 3,330,861, 7–11–67, Cl. 260—488.

Prindle, Hershel B., and T. H. Chandler, to The Dow Chemical Co. Bacteria-resistant latices containing α,α'-azobis (chloroformamidine). 3,317,448, 5–2–67, Cl. 260—29.6.

Prindle, Hershel B., R. R. Langner, and T. H. Chandler, to The Dow Chemical Co. Bacteria-resistant latices containing 2-2′-azobis (chloroformamidine). 3,325,436, 6–13–67, Cl. 260—29.7.

Prine, David W., to Zenith Radio Corp. Support for elongated electrodes of electron beam tube. 3,304,461, 2–14–67, Cl. 315—3.

Prines, Frank J., to Westinghouse Electric Corp. Rise time circuit for silicon controlled rectifies. 3,303,408, 2–7–67, Cl. 321—45.

Pringle, Dukler & Crump, Inc.: *See*—
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Pringle Electrical Mfg. Co., The: *See*—
Henderson, Louis S. 3,359,464.

Pringle, Gordon R., to Esso Research and Engineering Co. Keyed cargo container. 3,305,122, 2–21–67, Cl. 220—15.

Prins, Daniel A.: *See*—
Schröter, Herbert, and Prins. 3,337,534.
Schroter, Herbert, and Prins. 3,358,026.

Prins, Daniel A., to Geigy Chemical Corp. Method of treatment of depression in mammals. 3,317,385, 5–2–67, Cl. 167—65.

Printed Motors Inc.: *See*—
Bonnefoy, Jean R. H. 3,354,332.
Henry-Baudot, Jacques. 3,296,474.
Henry-Baudot, Jacques. 3,304,598.
Henry-Baudot, Jacques. 3,312,846.
Henry-Baudot, Jacques. 3,324,323.
Henry-Baudot, Jacques. 3,354,333.

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Printing, Packaging and Allied Trades Research Association: *See*—
Jeans, Michael A. 3,312,415.

Printing Service Co.: *See*—
Worner, Jacob E., and Edwards. 3,347,123.

Prinz, Eberhard: *See*—
Mauz, Otto, and Prinz. 3,354,118.

Prinzbach, Frans J.: *See*—
Naujoks, Rudolf A. W., Held, Prinzbach, and Gantner. 3,319,819.

Prioletti, John A.: *See*—
Roeske, Paul W., Vary, Grebe, and Prioletti. 3,326,043.

Prior, William L. Inorganic plastic cements and process for the preparation thereof. 3,320,077, 5–16–67, Cl. 106—105.

Priore, Daniel. Adjustable support for excavation batter boards. 3,304,041, 2–14–67, Cl. 248—156.

Pripart S.A.: *See*—
Mazuranic, Mladen, and Mazuranic-Jankovic. 3,312,475.

Prise, Walter J., to Lockheed Aircraft Corp. Flat cable connector. 3,307,139, 2–28–67, Cl. 339—176.

Prisekin, Constantine: *See*—
Filipowsky, Richard F. J., and Prisekin. 3,304,372.
Filipowsky, Richard F. J., Prisekin, and Davidson. 3,311,704.

Priser, Clovis F. Calibration means for an omni instrument. 3,344,652, 10–3–67, Cl. 73—1.

Priset, Francis C. Frankfurter slicer. 3,356,118, 12–5–67, Cl. 146—72.

Prislan, Georges, to Societe dite: Glaces de Boussois. Drawing chamber for the continuous manufacturing of sheet glass. 3,297,423, 1–10–67, Cl. 65—204.

Prislan, Georges, to Societe dite: Glaces de Boussois. Angular jets in conditioning chamber of a glass sheet drawing apparatus. 3,317,300, 5–2–67, Cl. 65—84.

Prismo Safety Corp.: *See*—
De Vries, Eduard R. 3,321,329.

Pritchard, Benjamin S.: *See*—
Blackwell, Harold R., Fry, Prichard, and Pritchard. 3,343,449.

Pritchard, Colin, and G. C. Della Pergola, to Westinghouse Electric Corp. Contacting of P-N junctions. 3,295,185, 1–3–67, Cl. 29—25.3.

Pritchard, John: *See*—
Ellison, Ronald, and Pritchard. 3,334,601.

Pritchard, John P., Jr., to Texas Instruments, Inc. Enhanced voltage readout for cryoelectric memories. 3,309,680, 3–14–67, Cl. 340—173.1.

Pritchard, John P., Jr., to Texas Instruments Inc. Associative data processing system. 3,350,698, 10–31–67, Cl. 340—172.5.

Pritchard, Mildred M.: *See*—
Blackwell, Harold R., Fry, Pritchard, and Pritchard. 3,343,449.

Pritchard, Ralph W., II: *See*—
Gier, Delta W., and Pritchard. 3,308,018.

Pritchard, William C., to United States of America, Atomic Energy Commission. Method of stabilizing plutonium dioxide. 3,331,683, 7–18–67, Cl. 75—206.

Pritchett, Ervin G.: *See*—
Rowland, Stanley P., and Pritchett. 3,360,571.

Pritchett, Ervin G., to National Distillers and Chemical Corp. Process for polymerizing conjugated dienes using a catalyst comprising a non-polymerizing diene and lithium or a hydrocarbon lithium. 3,308,110, 3–7–67, Cl. 260—94.2.

Pritchett, Ervin G., and N. L. Hofmann, to National Distillers and Chemical Corp. Substantially linear, polydiene alcohols having majority of hydroxy groups terminal by preparing polydiene in hydrocarbon and then using ether medium during epoxide addition. 3,308,170, 3–7–67, Cl. 260—632.

Pritelli, Giuseppe. Article of furniture assembled from prefabricated components. 3,353,888, 11–21–67, Cl. 312—257.

Pritzker, David. Prefabricated concrete tanks and structures. 3,300,916, 1–31–67, Cl. 52—81.

Prival, Katharine B., to Bell Telephone Laboratories, Inc. Method for making electrical components. 3,323,199, 6–6–67, Cl. 29—155.5.

Privas, Yves, to P. Anstalt. Prefabricated sandwich panel for the construction of walls and partitions. 3,336,713, 8–22–67, Cl. 52—403.

Prizer, Charles J., and W. D. Emmons, to Rohm & Haas Co. N-alkylmorpholinone esters of alkenylsuccinic anhydrides. 3,311,558, 3–28–67, Cl. 252—47.5.

Proabd S.A.: *See*—
Ab der Halden, Claude. 3,331,853.

Probasco, Harold T. Dispensing apparatus. 3,301,620, 1–31–67, Cl. 312—201.

Probert, Kenneth D.: *See*—
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Probert, Walter L., to A. O. Smith Corp. Enclosure for electrical apparatus and systems. 3,340,441, 9–5–67, Cl. 317—120.

Probert, Walter L., to A. O. Smith Corp. Signal transmitting apparatus for sequentially transmitting simultaneously generated signals. 3,340,525, 9–5–67, Cl. 340—346.

Probert, Walter L., and K. N. Shade, to A. O. Smith Corp. Reset means for coded control. 3,304,541, 2–14–67, Cl. 340—147.

Probert, Walter L., and K. N. Shade, to A. O. Smith Corp. Coded control apparatus. 3,340,409, 9–5–67, Cl. 307—115.

Probst, John S., to The American Paper Products Co. Church contribution envelope. 3,343,749, 9–26–67, Cl. 229—72.

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Riemenschneider, Wilhelm, Dialer, Probst, and Bander. 3,301,905.
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Probst, Richard O., to Ransburgh Electro-Coating Corp. Continuously circulating valved system with fluid cleaning provisions. 3,334,648, 8–8–67, Cl. 134—238.

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Process Research Co.: *See*—
Polichette, Joseph. 3,301,175.

Process Research, Inc: *See*—
Cabero, Luciano S. 3,325,438.

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Newsome, Leslie, and Fisher. 3,315,044.

Prochazka, Jindrich and Marta. Rotary combustion engine. 3,304,921, 2–21–67, Cl. 123—11.

Prochazka, Marta: *See*—
Prochazka, Jindrich and Marta. 3,304,921.

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Procter, Edward C., to Sperry Rand Corp. Forage harvester. 3,352,093, 11–14–67, Cl. 56—98.

Procter, Edward E. and B. E. Rotary spirit duplicator addressing machine. 3,322,065, 5–30–67, Cl. 101—132.5.

Procter & Gamble Co., The: *See*—
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Almstead, James L., Greeb, and Ohren. 3,351,557.
Baker, Joseph S., and Lindeman. 3,297,449.
Behrens, Edwin L. 3,355,390.
Berry, Jim S. 3,352,786.
Berry, Jim S. 3,359,246.
Burt, Robert V. 3,300,104.
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Chaffee, Robert H., and Meyer. 3,324,038.
Colby, Edward E., and Hager. 3,350,208.
Cooper, David J., and Gibson. 3,321,512.
Coward, Todd L., and Barker. 3,332,874.
Coward, Todd L., and Barker. 3,332,878.
Coward, Todd L., and Barker. 3,332,879.
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Davis, Jerry E. 3,341,459.
Diehl, Francis L. 3,308,067.
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Erman, William F. 3,318,945.
Franz, Norman J. 3,344,010.
Gass, Russell L. 3,343,965.
Gedge, Burton H., III. 3,356,613.
Gunn, Charles L. 3,360,182.
Haefele, John W. 3,345,993.
Harlan, Warren H. 3,316,877.
Harm, Alson R. 3,303,630.
Harm, Alson R. 3,344,577.
Hays, Hugh R. 3,325,546.
Herrmann, Kenneth W. 3,346,504.
Herrmann, Kenneth W. 3,346,873.
Hooker, Donald T. 3,312,626.
Hooker, Donald T. 3,312,627.
Hugenberg, Frederick R., and Lutton. 3,353,966.
Kessler, Adriaan. 3,336,403.
Kessler, Adriaan, and Pfaumer. 3,332,875.
Kessler, Adriaan, and Pfaumer. 3,332,880.
Koren, Paul M., and Menzies. 3,350,207.
Kropp, Paul J. 3,350,289.
La Follette, Elwood L. 3,357,950.
Lang, Edward W., and McCune. 3,313,734.
Lawrence, Benjamin. 3,317,323.
Laycock, Thomas B., Jr., and Tucker. 3,328,312.
Lucas, Malcolm B. 3,311,032.
Lucas, Malcolm B. 3,334,612.
Lucas, Malcom B., Duncan, and Sedlin. 3,322,594.
Lutton, Edwin S. 3,353,967.
Lyness, Warren I., and O'Connor. 3,329,618.
Lyness, Warren I., and O'Connor. 3,336,230.
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MacKendrick, Robert G. 3,306,514.
MacMillan, Francis S. K. 3,312,709.
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Martin, James B. 3,350,413.
McCune, Homer W. 3,313,735.
Meyer, Larry E., and Walker. 3,345,297.
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Purves, Edward R., Going, and Dodson. 3,355,302.
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Seiden, Paul. 3,298,837.
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Sisson, Names B. 3,303,576.
Smith, George C., Jr. 3,318,817.
Squire, James R. 3,325,034.
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Thelle, Kenneth W., Wyness, and McCarty. 3,321,538.
Thompson, James E. 3,337,596.
Tillotson, Charles C., and James. 3,303,896.
Walker, Arthur P. 3,332,876.
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Wilson, Eugene R. 3,338,838.
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Yoke, John T., III, and Laughlin. 3,304,263.
Yoke, John T., III, and Laughlin. 3,304,330.
Zimmerer, Roger E. 3,351,558.

Procter, Reginald H., and F. H. W. Sanders, to English Drilling Equipment Co. Ltd. Hydraulic piston and cylinder combinations. 3,302,535, 2–7–67, Cl. 92—52.

Procter, Samuel A., ½ to F. M. Swett. Analog-to-digital converter. 3,343,156, 9–19–67, Cl. 340—347.

Proctor, Albert E., to Airoil Burner Co. (G.B.) Ltd. Valve and burner manifold arrangement. 3,295,584, 1–3–67, Cl. 158—75.

Proctor, Basil A.: *See*—
Morley, John G., and Proctor. 3,303,006.

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Bray, Thomas L., Cofer, Proctor, and Ward. 3,318,364.
Bray, Thomas L., Cofer, Proctor, and Ward. 3,331,431.
Cofer, Daniel B., Proctor, and Ward. 3,322,184.
Cofer, Daniel B., Proctor, and Ward. 3,333,624.
Cofer, Daniel B., Proctor, Ward, and Bray. 3,331,539.
Cofer, Daniel B., Ward, and Proctor. 3,296,682.
Cofer, Daniel B., Ward, and Proctor. 3,317,994.

Proctor, Edward A. Piles. 3,332,247, 7–25–67, Cl. 61—53.

Proctor, Edward A. Safety seats for vehicles. 3,337,260, 8–22–67, Cl. 296—65.

Proctor, Herbert W., to United Shoe Machinery Corp. Stepping motor with a flexible rotor. 3,331,974, 7–18–67, Cl.

Proctor Hydro-Set Co.: *See*—
Brewin, Grant H., and Scott. 3,355,074.

Proctor, Ian, Metal Masts Ltd.: *See*—
Dyer, David E. 3,331,348.

Proctor-Lauretti Machine Co.: *See*—
Lauretti, Piacentino. 3,358,307.

Proctor, Lester D. Beverage container counter device. 3,336,665, 8–22–67, Cl. 30—6.1.

Proctor, Noel B.: *See*—
Wood, Fenton M., and Proctor. 3,295,362.
Wood, Fenton M., and Proctor. 3,302,453.
Wood, Fenton M., and Proctor. 3,321,959.
Wood, Fenton M., and Proctor. 3,332,278.

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Proctor, Robert W., to The Cross Co. Dual rate indexing system for machine tools. 3,301,374, 1–31–67, Cl. 198—19.

Proctor, Ronald R., and R. G. Moyer, to Union Oil Co. of California. Method and apparatus for converting cartograph coordinates to permanent digital form. 3,304,612, 2–21–67, Cl. 33—1.

Proctor, Russell C., and R. W. Parrish, to Conch International Methane Ltd. Means for maintaining the substitutability of LNG. 3,302,416, 2–7–67, Cl. 62—45.

Proctor, Russell C., and R. W. Parrish, to Conch International Methane Ltd. Method for liquefying and storing natural gas and controlling the B.t.u. content. 3,331,214, 7–18–67, Cl. 62—20.

Proctor & Schwartz, Inc.: *See*—
Flaith, George D., and Hoffman. 3,324,570.
Flaith, George D., and Hoffman. 3,341,949.
Flaith, George D., and Howard. 3,313,039.
Franklin, John J., and Thygeson. 3,308,556.

Proctor, Sidney E., to Austin Hoy and Co. Ltd. Coal cutter picks and pick boxes therefor. 3,297,365, 1–10–67, Cl. 299—92.

Proctor, Sidney E., to Austin Hoy and Co., Ltd. Cutter tools and tool-boxes therefor. 3,330,601, 7–11–67, Cl. 299—92.

Proctor-Silex Corp., The: *See*—
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Manship, Luther P., Turner, and Zamiska. 3,323,441.
Manship, Luther P., Turner, and Zamiska. 3,333,087.

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Product Design & Engineering, Inc.: *See*—
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Porter, Alvin J., and Mathison. 3,326,426.

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Production Experts, Inc.: *See*—
Noll, Stanley D., and Delfeld. 3,298,264.

Products Engineering Co.: *See*—
Stevens, Howard A. 3,338,009.

Products Research Associates, Inc.: *See*—
Duncan, Edward T. 3,300,711.

Produits Chimiques Pechiney-Saint-Gobain: *See*—
Claus, Jacques. 3,314,755.
Cosnard, Jean C. 3,333,316.
Hardouin, Serge, and Salmon. 3,338,567.
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Meiller, Francois. 3,357,952.
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Renault, Daniel A. M. H. 3,349,039.

Proebster, Walter E., to International Business Machines Corp. Magnetic transfer circuit. 3,327,295, 6–20–67, Cl. 340—174.

Proell, Wayne A., to Standard Oil Co. Process and composition for CO_2 generation from Ag_2CO_3 and C. 3,347,629, 10–17–67, Cl. 23—150.

Profexray, Inc.: *See*—
Craig, James R., and Otto. 3,325,643.

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Profitable Resources Inc.: *See*—
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Progil: *See*—
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Progress Pattern Co.: *See*—
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Prohaska, John O., to The Mansfield Tire and Rubber Co Reinforced flexible diaphragms. 3,323,423, 6–6–67, Cl. 92—103.

Prohaska, Raymond, to C. Washburn. Display device and reflective elements therefor. 3,318,187, 5–9–67, Cl. 88—24.

Prohofsky, Leroy A.: *See*—
Bergman, Robert J., and Prohofsky. 3,357,004.

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Projecteurs Cible Societe Anonyme: *See*—
Sombardier, Jules A. 3,336,470.

Projector, Theodore H., and R. S. Rinkinen. Single station range light. 3,311,877, 3–28–67, Cl. 340—29.

Projector, Theodore H., and R. S. Rinkinen. Oscillating color filter single station range light. 3,354,428, 11–21–67, Cl. 340—29.

Projects Unlimited, Inc.: *See*—
Wyse, David S. and Kienker. 3,307,143.

Prokes, Irvin J., and T. M. Dwyer. Beverage container. 3,303,985, 2–14–67, Cl. 229—7.

Proksa, Arthur J., to Everede Tool Co. Boring bar assembly. 3,344,690, 10–3–67, Cl. 77—58.

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Pronzati, Attilio. Safety device for ski-boot coupling. 3,326,567, 6–20–67, Cl. 280—11.35.

Proops, William R., to Union Carbide Corp. Oxidized stannous acylates. 3,336,351, 8–15–67, Cl. 260—414.

Proops, William R., C. W. McGary, Jr., and D. R. Montgomery, to Union Carbide Corp. Epoxide compositions. 3,328,318, 6–27–67, Cl. 260—2.

Properzi, Ilario. Continuous casting wheel, with improved cooling device. 3,346,038, 10–10–67, Cl. 164—278.

Properzi, Ilario. Machine for coiling continuously supplied tape. 3,360,211, 12–26–67, Cl. 242—80.

Propper Mfg. Co., Inc.: *See*—
Kelson, Arthur W. 3,313,266.
Speelman, Irving A. 3,303,903.
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Speelman, Irving A. 3,346,069.
Speelman, Irving A. 3,348,627.
White, James C. 3,341,238.

Propps, David J., to Mallory, P. R. & Co., Inc. Sealed capacitor with fluid passageway through electrode. 3,307,086, 2–28–67, Cl. 317—230.

Propst, Robert L., to Herman Miller, Inc. Crop thinner. 3,315,753, 4–25–67, Cl. 172—96.

Propst, Robert L., to Herman Miller, Inc. Shelf forming carton. 3,346,318, 10–10–67, Cl. 312—330.

Propster, Charles H., Jr., to General Electric Co. Electronic data processor. 3,311,885, 3–28–67, Cl. 340—172.5.

Propster, Charles H., Jr., to General Electric Co. Print-out control systems. 3,356,997, 12–5–67, Cl. 340—172.5.

Pro-Putt, Inc.: *See*—
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Prosceno, Harry A., V. H. Schrader, and S. E. Zeis, to Joseph Bancroft & Sons Co. Apparatus for making variably bulked yarn. 3,353,241, 11–21–67, Cl. 28—1.

Prosen, Gildo G.: *See*—
Priesmeyer, Charles, and Prosen. 3,313,231.

Prosen, Stanley P.: *See*—
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Proskauer, Walter, to Electrostatic Printing Corp. of America. Powder feed mechanism employing vibrating screen. 3,333,537, 8–1–67, Cl. 101—364.

Pross, John W., Jr.: *See*—
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Kinzie, James E., Pross, Steves, and Trostrud. 3,331,954.
Kinzie, James E., Pross, Steves, and Trostrud. 3,340,513.

Prosser, David G., to Autotrol Corp. Timing control. 3,302,467, 2–7–67, Cl. 74—3.5.

Prosser, David G., to Autotrol Corp. Adjustable constant flow valve. 3,322,145, 5–30–67, Cl. 137—517.

Prosser, Lionel E., and C. J. Saunders, to The British Hydromechanics Research Association. Pipeline network simulator. 3,359,652, 12–26–67, Cl. 35—10.

Prost, Marechal J.: *See*—
Joly, Robert, Warnant, Jolly, and Prost. 3,301,878.

Prostel, Edward: *See*—
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Protection, Inc.: *See*—
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Protective Packaging, Inc.: *See*—
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Protein Foundation, Inc.: *See*—
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Protiva, Miroslav: *See*—
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Protiva, Miroslav, J. Jilek, J. Metyšová, I. Ernest, K. Pelz and E. Adlerová, to SPOFA, Spojene podniky pro zdravotnickou vyrobu. 10,11-dihydro dibenzo[b,f]thiepins. 3,351,599, 11–7–67, Cl. 260—268.

Proto, John J.: *See*—
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Prototech Inc.: *See*—
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Juda, Walter. 3,336,153.

Prototypes, Inc.: *See*—
Clements, Clarence J., Jr. 3,301,955.
Clements, Clarence J., Jr., and Leaf. 3,340,763.

Protzman, Thomas F., and J. A. Wagoner, to A. E. Staley Mfg. Co. Gelatinized starch products. Re. 26,256, 8–29–67, Cl. 127—71.

Protzman, Thomas F., J. A. Wagoner, and A. H. Young, to A. E. Staley Mfg. Co. Process of casting amylose films. 3,344,216, 9–26–67, Cl. 264—93.

Protzmann, Donald E.: *See*—
Whitaker, Joe M., and Protzmann. 3,318,086.

Proud, Norman T., to Paul Segnert Pty. Ltd. Construction and erection of framing members. 3,345,794, 10–10–67, Cl. 52—731.

Proud, Ralph A., Jr.: *See*—
O'Brien, Richard C., and Proud. 3,339,470.

Proud, Ralph A., Jr., to Harris-Intertype Corp. Tabulation and leader insertion for phototypesetting system. 3,357,327, 12–12–67, Cl. 95—45.

Proud, Ralph A., Jr., and R. C. O'Brien, to Harris-Intertype Corp. Spacer control for phototypesetting system. 3,307,459, 3–7–67, Cl. 95—4.5.

Proudfoot, Don A. Plywood panel construction. 3,316,684, 5–2–67, Cl. 52—615.

Proudlove, Frank W., to British Aircraft Corp. (Operating) Ltd. Gun pod enclosing a gun and a cartridge tank connected by a cartridge chute enclosed in a pylon connecting the pod to an aircraft. 3,352,207, 11–14–67, Cl. 89—37.5.

Proulx, Eugene H., to The Hilliard Corp. Filter cartridge. 3,360,133, 12–26–67, Cl. 210—492.

Proulx, Jean. Suction box cover. 3,360,429, 12–26–67, Cl. 162—363.

Proulx, Romeo T., to VISIrecord, Inc. Divider panel. 3,329,150, 7–4–67, Cl. 129—16.7.

Proulx, Romeo T., to VISIrecord, Inc. Cabinet construction for office equipment. 3,346,315, 10–10–67, Cl. 312—255.

Proulx, Romeo T., to VISIrecord, Inc. Filing system. 3,358,692, 12–19–67, Cl. 129—16.

Proulx, Romeo T., to VISIrecord, Inc. Caster brake. 3,358,792, 12–19–67, Cl. 188—29.

Prout, Aaron E.: *See*—
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Prout, William E.: *See*—
Russell, Edwin R., Prout, Groh, and Watt. 3,309,323.

Prout, William E., E. R. Russell, and H. J. Groh, Jr., to United States of America, Atomic Energy Commission. Removal of cesium from aqueous solutions by ion exchange. 3,296,123, 1–3–67, Cl. 210—38.

Proutiere, Louis A.: *See*—
Mauduech, Robert R., Gouttebel, Proutiere, and Communal. 3,303,287.

Provance, Jason D.: *See*—
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Provaznik, Bohumil, to Ceskoslovenske energeticke zavody. Pole climber. 3,340,961, 9–12–67, Cl. 182—134.

Provence, Herbert H.: *See*—
McKittrick, James L., and Provence. 3,341,000.

Provenza, Johnny P. Measuring dispenser. 3,358,886, 12–19–67, Cl. 222—158.

Provincial Engineering Ltd.: *See*—
Sheridan, Eric, and Graham. 3,330,590.

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Provisor, Henri, to North American Philips Co., Inc. Method of producing black, metal-containing surface layers. 3,342,634, 9–19–67, Cl. 117—223.

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Questel, John M., and J. A. Miller, to Morgan Adhesives Co. Oil film laminate. 3,334,009, 8–1–67, Cl. 161—245.

Quester, Karl W., and H. Lieten, to W. Quester. Device for dispensing loose materials to a number of user points. 3,300,098, 1–24–67, Cl. 222—196.

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Quick, Carl F. Orthopedic devices and methods of using the same. 3,314,419, 4–18–67, Cl. 128—90.

Quick, Carl F. Means and methods for connecting tubular conduits. 3,315,986, 4–25–67, Cl. 28—21.

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Quick, John D., and P. W. Sullivan, to Sanders Associates, Inc. Phase measuring direction finder. 3,325,813, 6–13–67, Cl. 343—113.

Quick, Lester K. Temperature responsive modulating control valve for a refrigeration system. 3,316,731, 5–2–67, Cl. 62—196.

Quick, Lester K. Latent heat refrigeration defrosting system. 3,343,375, 9–26–67, Cl. 62—81.

Quick, Lester K. Refrigeration system condenser arrangement. 3,358,469, 12–19–67, Cl. 62—196.

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Bourdon, Joseph J., Nameth, Moore, Ripley, Stencel, and Quick. 3,308,450.

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Quigley, John J., to Inland Steel Co. Apparatus and method for continuously sampling gas. 3,304,783, 2–21–67, Cl. 73—421.5.

Quigley, Richard J., Jr., to Sperry Rand Corp. Fluid binary counter. 3,331,381, 7–18–67, Cl. 137—81.5.

Quimby, Paul J., to Bethlehem Steel Corp. Cable anchorage. 3,344,452, 10–3–67, Cl. 14—21.
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Quinn, Halsey P., to Tung-Sol Electric Inc. Ignition circuit. 3,316,449, 4–25–67, Cl. 315—214.
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Quinn, Richard E., and E. H. Cox. Rotatable drums and loading and unloading doors therefor. 3,349,581, 10–31–67, Cl. 69—30.
Quinn, Richard E., and E. H. Cox. Rotatable drum and drain valve therefor. 3,349,582, 10–31–67, Cl. 69—30.
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Quinting, Rudi F., to General Motors Corp. Seat belt retractor. 3,347,488, 10–17–67, Cl. 242—107.4.
Quinto, Mario J. Slide valve. 3,342,205, 9–19–67, Cl. 137—375.
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Quisenberry, Richard K., and E. A. Pacofsky, to E. I. du Pont de Nemours and Co. Block copolyesters containing sulfonate radicals. 3,317,632, 5–2–67, Cl. 260—860.
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Raasch, Hans, and W. Kupper, to Walter Reiners. Method and apparatus for readying the winding operation of yarn supply coils on coil winding machines. 3,295,775, 1–3–67, Cl. 242—35.5.
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Raasch, Maynard S., to E. I. du Pont de Nemours and Co. Selected 4-hexafluoroisopropylidene-2,2-bis(hydrocarbyl)-1,3-dithietanes and derivatives. 3,337,586, 8–22–67, Cl. 260—327.
Raasch, Maynard S., to E. I. du Pont de Nemours and Co. Selected 2 - arylimino-4-hexafluoroisopropylidene-1,3-dithietanes and their preparation. 3,355,446, 11–28–67, Cl. 260—152.
Rab, William K., to Multiprint, Inc. Optical apparatus for adjusting copy-to-image ratios in graphic arts photography. 3,295,408, 1–3–67, Cl. 88—24.
Raba, Joseph W. Directional attack reading machine. 3,328,898, 7–4–67, Cl. 35—35.
Rabanit, Paul. Multiple exposure camera. 3,323,432, 6–6–67, Cl. 95—18.
Rabb, Irving L. Bottle carrier. 3,298,563, 1–17–67, Cl. 220—110.

Rabb, Irving L. Bottle carrier. 3,333,729, 8–1–67, Cl. 220—116.
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Rabinow, Jacob, to Control Data Corp. Vehicle reading system using inboard light. 3,304,412, 2–14–67, Cl. 235—61.11.
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Rabinow, Jacob. Light sensitive adjustable rear view mirror. 3,307,899, 3–7–67, Cl. 350—281.
Rabinow, Jacob. Metric, English converter for machine tools. 3,315,633, 4–25–67, Cl. 116—115.5.
Rabinow, Jacob. Free-tracking phonograph pickup. 3,356,372, 12–5–67, Cl. 274—23.
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Rabson, William R. and T. A., H. M. Wilson, and L. C. De La Torren, to PGAC Development Co. Dual channel well logging system. 3,309,657, 3–14–67, Cl. 340—18.
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Rabuse, George R., A. J. Wallner, and C. A. Sterling, to Minnesota Mining and Mfg. Co. Pressure sensitive adhesive tapes with anti-static edge coatings. 3,347,362, 10–17–67, Cl. 206—59.
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Race, Richard T., to Motorola Inc. Electrical control circuit including indirectly heated thermistor providing abrupt change in resistance with temperature. 3,307,167, 2–28–67, Cl. 340—253.
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Raclot, Bernard, to Societe Generale du Magnesium. Methd for preparation of aluminum-mercury alloys. 3,318,692, 5–9–67, Cl. 75—138.
Raclot, Bernard, to Societe Generale du Magnesium. Aluminum base alloys and applications thereof. 3,343,948, 9–26–67, Cl. 75—138.
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Radcliffe, Richard J., to Ebco Mfg. Co. Combined dispensing closure and air filter for liquid containers. 3,333,741, 8–1–67, Cl. 222—189.
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Raddin, Franklin M., and R. J. La Manna, to Monroe Calculating Machine Co. Magnetic card reader and transport. 3,296,605, 1–3–67, Cl. 340—174.1.
Radek, John R., to Ready Metal Mfg. Co. Rug display rack. 3,297,165, 1–10–67, Cl. 211—46.
Radek, John R., to Ready Metal Mfg. Co. Merchandise display cabinet. 3,297,374, 1–10–67, Cl. 312—108.
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Rademacher, Leo E., to Monsanto Co. Method of preparing polyolefins. 3,347,841, 10–17–67, Cl. 260—94.9.

Rademacher, Leo E., to Monsanto Co. Graft blends and method of preparing same. 3,347,956, 10–17–67, Cl. 260—878.
Rademacher, Paul E., to Sperry Rand Corp. Object detection system. 3,343,167, 9–19–67, Cl. 343—17.5.
Rademacher, Robert E. Rag folding machine. 3,342,386, 9–19–67, Cl. 223—37.
Rademacher, Thomas P. Mobile exercising and amusement device. 3,298,702, 1–17–67, Cl. 280—1.22.
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Ramsey, Joseph D. Resilient bumpers for vehicles. 3,311,397, 3–28–67, Cl. 293—84.

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Randall, Nathan A., and A. E. Gruel, to Allis-Chalmers Mfg. Co. Brazing tool. 3,333,082, 7–25–67, Cl. 219—85.

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Randazzo, Marion G. Dispensing closure and container. 3,326,402, 6–20–67, Cl. 215—40.

Randol, Glenn T. Automatic carburetion interrupter for internal-combustion engines. 3,299,872, 1–24–67, Cl. 123—102.

Randol, Glenn T. Automotive spring-engageable clutch with uniform operating control. 3,314,511, 4–18–67, Cl. 192—68.

Randol, Glenn T. Dual-cylinder hydraulic actuator for automotive clutch and brake control. 3,321,055, 5–23–67, Cl. 192—18.

Randol, Glenn T. Hydraulic power-assisted master brake cylinder. 3,345,817, 10–10–67, Cl. 60—54.6.

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Randrup, Benjamin F. Indexing device. 3,355,856, 12–5–67, Cl. 53—76.

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Ranhagen, Ernst G. R. and E. G., to Aktiebolaget Karlstads Mekaniska Werkstad. Device for the screening of liquids. 3,317,051, 5–2–67, Cl. 210—332.

Ranhagen, Ernst G. R. and E. G., to Aktiebolaget Karlstads Mekaniska Werkstad. Liquid spraying or screening device. 3,353,752, 11–21–67, Cl. 239—538.

Ranheim, John W. Vacuum-type circuit interrupter. 3,355,564, 11–28–67, Cl. 200—144.

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Baldwin, John L. E. 3,328,710.
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Barringer, Brian W. 3,306,087.
Harris, David A. 3,300,727.
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Stillwell, Peter F. T. C., and Greaves. 3,315,377.

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Spragg, Robert C. 3,313,149.
Taylor, Frank N. 3,328,602.

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Rank, Wolfgang, to Loewe Opta G.m.b.H. Playback of high-frequency signals recorded on a magnetic tape. 3,309,460, 3–14–67, Cl. 178—6.6.

Rank, Wolfgang, to Loewe Opta Aktiengesellschaft. Video transducing apparatus with tape tensioning lever. 3,317,679, 5–2–67, Cl. 179—100.2.

Rank, Wolfgang, to Loewe Opta Aktiengesellschaft. Adjustable guide means for a helical scan tape recorder. 3,354,269. 11–21–67, Cl. 179—100.2.

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Ranseen, Emil L.: *See*—
Banning, Thomas A., Jr., and Ranseen. 3,351,718.

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Ransley, Charles E., to British Aluminium Co. Ltd. Current conducting elements. 3,330,756, 7–11–67, Cl. 204—279.

Ransley, Derek L., to Chevron Research Co. Sulfur compounds from allene. 3,315,000, 4–18–67, Cl. 260—609.

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Ransom, George E., Jr. Rotary incinerator and method of operating same. 3,306,237, 2–28–67, Cl. 110—14.

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Ransom, Robert B. Drag mechanism for fishing reel. 3,307,799, 3–7–67, Cl. 242—84.44.

Ransomes Sims & Jefferies Ltd.: *See*—
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Ranson, Charles W. Fruit and vegetable washing device with vertical circulative flow. 3,314,659, 4–18–67, Cl. 259—4.

Ranson, John B., to Associated Automation Ltd. Tape handling devices. 3,338,489, 8–29–67, Cl. 226—50.

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Jumelle, Louis F., Ranvier, and Richter. 3,344,883.

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Rao, Koppaka V., W. S. Marsh, and D. W. Renn, to Chas. Pfizer, Inc. Antibiotic product and process of producing same. 3,328,248, 6–27–67, Cl. 167—65.

Rao, Mlarur L. B., to P. R. Mallory & Co., Inc. Addition agents for exothermic sintering processes. 3,322,535, 5–30–67, Cl. 75—201.

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Raoul, Pierre, to Produits Chimiques Pechiney-Saint-Gobain. Stabilization of formaldehyde polymers with thiazolidione-2,4's. 3,357,943, 12–12–67, Cl. 260—45.8.

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Rapala, Richard T., to Eli Lilly and Co. Novel pregnenolone acetonides. 3,345,362, 10–3–67, Cl. 260—239.55.

Rapaport, Max, to Nomo Products, Inc. Piercing earring and method of manufacture thereof. 3,353,372, 11–21–67, Cl. 63—12.

Rapata, George M., to Illinois Tool Works Inc. Contact assembly for switching operations. 3,297,849, 1–10–67, Cl. 200—166.

Rapata, George M., to Illinois Tool Works Inc. Fastener stud. 3,319,510, 5–16–67, Cl. 85—72.

Rapata, George M., to Illinois Tool Works Inc. Shock mounting grommet. 3,319,918, 5–16–67, Cl. 248—239.

Rapata, George M., to Illinois Tool Works, Inc. Fastener. 3,320,712, 5–23–67, Cl. 52—511.

Rapean, John C., and R. T. Cambio, to Shell Oil Co. Process for recovering and drying aldehyde polymers. 3,326,858, 6–20–67, Cl. 260—67.

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Raphael, David A.: *See—*
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De Good, Maynard J. 3,321,057.
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Rapp, Jay W., to Monsanto Co. Positive pressure applicator. 3,339,238, 9–5–67, Cl. 18—19.

Rapp, Julian D., ½ to J. L. Salvador, ¼ each to W. Rapp, W. B. Lindquist, H. D. Lindquist, and J. D. Rapp. Scraper with endless loading conveyor. 3,331,149, 7–18–67, Cl. 37—8.

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Rapp, Raymond I., W. R. Peterson, and T. C. Pallas. Envelope, apparatus and method for making and filling envelopes. 3,339,337, 9–5–67, Cl. 53—180.

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Rapparlie, Hans, R. Mielert, and E. Ernst, to Telefunken Patentverwertungsgesellschaft G.m.b.H. Conveyor device. 3,360,260, 12–26–67, Cl. 271—45.

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Rappeport, Michael A., to Bell Telephone Laboratories, Inc. Phase equalizers concatenated with transversal equalizer wherein both are automatically controlled to minimize pulse distortion and minimize burden of transversal filter. 3,305,798, 2–21–67, Cl. 333—18.

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Rarey, Kenneth W., J. B. Kennedy, Jr., and J. G. Buck, to Continental Can Co., Inc. Electrostatic screen printing of particles made of highly insulating materials. 3,296,963, 1–10–67, Cl. 101—114.

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Rashleigh, Clayton, to International Business Machines Corp. Method of forming through hole conductor lines. 3,349,480, 10–31–67, Cl. 29—624.

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Raskhodoff, Nicholas M., to United States of America, Navy. Module cooling system. 3,298,195, 1–17–67, Cl. 62—414.

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Raskin, Seymour H. Position indicating switch means. 3,300,602, 1–24–67, Cl. 200—61.41.

Raskin, Seymour H. Railroad track weighing cell. 3,347,326, 10–17–67, Cl. 177—163.

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Rasmussen, Borge A., deceased (by H. K. Rasmussen, widow), to McDonnel Douglas Corp. Safety belt buckle. 3,341,250, 9–12–67, Cl. 297—388.

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Rasmussen, Francis R., to United States of America, Navy. Hydrofoil with unsymmetrical nose profile. 3,343,512, 9–26–67, Cl. 114—66.5.

Rasmussen, Frits, to F. L. Smidth & Co. Crushing and drying apparatus. 3,343,800, 9–26–67, Cl. 241—47.

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Rasmussen, Norman A., to Pacific Car and Foundry Co. Clutch-controlled reversible or multi-speed power-transmitting mechanism. 3,344,896, 10–3–67, Cl. 192—3.5.

Rasmussen, Ole-Bendt, to Phillips Petroleum Co. Method of producing a lateral stretching of a continuous sheet material. 3,296,351, 1–3–67, Cl. 264—289.

Rasmussen, Ole-Bendt, to Phillips Petroleum Co. Laminated sheet material. 3,322,613, 5–30–67, Cl. 161—234.

Rasmussen, Ole-Bendt, to Phillips Petroleum Co. Artificial textile fibres and their production. 3,323,978, 6–6–67, Cl. 161—169.

Rasmussen, Ole-Bendt, to Phillips Petroleum Co. Fiber product having a branched reticular or netlike structure, and a method and apparatus for the production thereof. 3,345,242, 10–3–67, Cl. 161—109.

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Rasmussen, Ole-Bendt, to Phillips Petroleum Co. Method and appratus for stretching plastic film. 3,350,491, 10–31–67, Cl. 264—288.

Rasmussen, Ole-Bendt, to Phillips Petroleum Co. Method and apparatus for stretching thermioplastic film. 3,354,253, 11–21–67, Cl. 264—288.

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Rasmussen, Theo. Circular saw gumming and tooth shaping apparatus. 3,343,800, 9–26–67, Cl. 241—47.

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Rason, John P., and R. B. Fisher, to Tinker and Rason. Apparatus including time controlled indicating means and constant energy discharge storage means for electrically testing for holiday in insulating coatings. 3,339,136, 8–29–67, Cl. 324—54.

Raspanti, Matthew, to Bell Telephone Laboratories, Inc. Plural memory system with internal memory transfer and duplicated information. 3,312,947, 4–4–67, Cl. 340—172.5.

Raspe, Gerhard, K. Kieslich, E. Olivar, R. Muller, and B. Wagner, to Schering A.G. 16α-methyl-1,4-pregnadiene 3,20-diones. 3,354,186, 11–21–67, Cl. 260—397.45.

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Lobbe, Armin, and Rassmann. 3,357,743.

Rassmann, Christoph, W. Georg, and W. Heyer, to Gerwerkschaft Eisenhutte. Planer arrangement of carrier having plural pockets mounting cutter plates. 3,343,881, 9–26–67, Cl. 299—34.

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Rast, Wlodzimierz, to Rast Industries Ltd. Protector for gauges and the like. 3,347,272, 10–17–67, Cl. 138—30.

Rastrelli, Leonard U., E. L. Anderson, and J. D. Michie, to United States of America, Navy. Elastomeric strain gauge. 3,304,528, 2–14–67, Cl. 338—2.

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Redington, Rowland W., to General Electric Co. Electrophotographic process. 3,322,539, 5–30–67, Cl. 96—1.1.

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Rees, Warren A., Jr., to Texaco Inc. Bottom hole burner. 3,315,745, 4–25–67, Cl. 166—59.

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Renkowitz, Donald, to General Telephone and Electronics Laboratories, Inc. Variable linear frequency multivibrator circuit with distorted input voltage controlling the voltage sensitive frequency determining capacitor. 3,353,117, 11–14–67, Cl. 331—113.

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Rennick, John L., to Zenith Radio Corp. Ring magnetized across thickness with two diametrically opposed and oppositely oriented groups of magnetic pole pairs. 3,354,336, 11–21–67, Cl. 313—77.

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Renoux, Pierre E., to Cri-Dan. Thread cutting machine. 3,338,120, 8–29–67, Cl. 82—5.

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Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera with built-in or attached exposure meter and a manual or automatically adjustable diaphragm. 3,322,051, 5–30–67, Cl. 95—10.

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Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic apparatus for exposure control. 3,339,471, 9–5–67, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera with automatic means for setting the diaphragm in making photoflash exposures. 3,344,723, 10–3–67, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera with distance and diaphragm aperture setting members. 3,344,727, 10–3–67, Cl. 95—64.

Rentschler, Waldemar T. Photographic camera with high speed shutter operable at small diaphragm aperture settings. 3,357,334, 12–12–67, Cl. 95—63.

Rentschler, Waldemar T., F. W. R. Starp, and E. Weller, to Pronter-Werk Alfred Gauthier G.m.b.H. Photographic camera with light meter. 3,338,145, 8–29–67, Cl. 95—10.

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Renwick, Frederick W., Sr. Hearing aid battery switch. 3,327,070, 6–20–67, Cl. 179—107.

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Renz, Jany, J.-P. Bourquin, G. Schwarb, and L. Ruesch, to Sandoz Ltd. (a/k/a Sandoz A.G.) Thieno-benzothiopyran derivatives. 3,306,897, 2–28–67, Cl. 260—240.

Renz, Jany, J.-P. Bourquin, and H. Winkler, to Sandoz Ltd. (also known as Sandoz A.G.). Heterocyclic compounds. 3,314,948, 4–18–67. Cl. 260—243.

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Rhoads, George D., and R. N. Haynie, to Federal-Mogul Corp. Elastomeric oil seal having a laminated metal reinforcing member. 3,346,265, 10-10-67, Cl. 277—152.
Rhoads, J. E., & Sons, Inc.: *See*—
Epstein, Michael M., and Rhoads. 3,300,370.
Rhoads, James E. Hydraulic valve lifter. 3,304,925, 2-21-67, Cl. 123—90.
Rhoads, Joseph E.: *See*—
Epstein, Michael M., and Rhoads. 3,300,370.
Rhoads, Millard A. Pipe smoker's device. 3,299,897, 1-24-67, Cl. 131—232.
Rhoads, William L., to United States of America, Navy. Spin detent system. 3,329,090, 7-4-67, Cl. 102—70.
Rhode, Dan R. Beet blocking apparatus. 3,308,890, 3-14-67, Cl. 172—6.
Rhodes, Alan L., to Westinghouse Electric Corp. Time delay circuit using thermistors. 3,321,669, 5-23-67, Cl. 317—41.
Rhodes, Allen F.: *See*—
Jackson, John G., Jr., and Rhodes. 3,330,341.
Rhodes, Barry V. Ram jet engine and fuel injection system therefor. 3,355,891, 12-5-67, Cl. 60—270.
Rhodes, Barry V., and D. E. Bloxsom. Ramjet powered craft. 3,334,485, 8-8-67, Cl. 60—208.

Rhodes, Constantine, to Sylvania Electric Products, Inc. Display devices. 3,328,790, 6-27-67, Cl. 340—324.
Rhodes, Eugene E., to Ford Motor Co. Plaiting. 3,318,128, 5-9-67, Cl. 72—187.
Rhodes, Eugene G., to Corning Glass Works. Electrical capacitor manufacture. 3,310,392, 3-21-67, Cl. 65—54.
Rhodes, Frank. Building board lifter. 3,305,219, 2-21-67, Cl. 254—139.1.
Rhodes, Harold E. Portable, folding barbecue grill. 3,297,-016, 1-10-67, Cl. 126—25.
Rhodes, Harry W., to Clipper Mfg. Co., Inc. Adjustable vehicle frame for concrete groove cutter. 3,333,897, 8-1-67, Cl. 299—39.
Rhodes, Herbert C. Dough compressing and dividing device. 3,324,809, 6-13-67, Cl. 107—68.
Rhodes, Herbert C. Heat sealing device for bags in motion. 3,340,678, 9-12-67, Cl. 53—372.
Rhodes, Jacob E.: *See*—
Murdoch, Colin D. 3,360,228.
Rhodes, James E.: *See*—
Ellcey, Morgan E., and Rhodes. 3,295,692.
Rhodes, John C. Process of purifying or recovering mine drainage waters and the like. 3,347,787, 10-17-67, Cl. 210—50.
Rhodes, John K.: *See*—
Davies, William J., Allen, and Rhodes. 3,321,910.
Rhodes, Keith H., to Walker Mfg. Co. Throttle positioner with dashpot. 3,327,695, 6-27-67, Cl. 123—103.
Rhodes, M. H., Inc.: *See*—
Clark, Jesse K., and Draghi. 3,358,092.
Rhodes, Mary L.: *See*—
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Midgley, Eric L., Rhodes, and Hayward. 3,302,854.
Rhodes, Omer, to Clemtex Ltd. Material discharge gun. 3,318,530, 5-9-67, Cl. 239—117.
Rhodes, Philip H.: *See*—
Imes, Paul L., and Rhodes. 3,321,424.
Rhodes, Ralph D., Jr., to Phillips Petroleum Co. Purification of olefins. 3,326,999, 6-20-67, Cl. 260—677.
Rhodes, Richard P.: *See*—
Beach, Leland K., Ertelt, Guthrie, and Rhodes. 3,354,210.
Beach, Leland K., Gardiner, and Rhodes. 3,346,546.
Passannante, Anthony J., Rhodes, and Beach. 3,347,924.
Rhodes, Richard P., to Esso Research and Engineering Co. Purification of saturated aliphatic difluoroamino compounds. 3,341,597, 9-12-67, Cl. 260—583.
Rhodes, Richard P., to Esso Research and Engineering Co. NF adducts of acyclic polyenes and their preparation. 3,341,-598, 9-12-67, Cl. 260—583.
Rhodes, Richard P., to Esso Research and Engineering Co. Bis-difluoraminoethane derivatives. 3,345,398, 10-3-67, Cl. 260—467.
Rhodes, Richard P., to Esso Research and Engineering Co. Preparation of tetrakis (difluoroamino) butane. 3,345,414, 10-3-67, Cl. 260—583.
Rhodes, Richard P., and L. K. Beach, to Esso Research and Engineering Co. Method for making difluoroamino compounds. 3,341,596, 9-12-67, Cl. 260—583.
Rhodes, Richard P., and D. A. Guthrie, to Esso Research and Engineering Co. Tetrakis-(difluoroamino) butane. 3,347,922, 10-17-67, Cl. 260—583.
Rhodes, Richard P., and D. A. Guthrie, to Esso Research and Engineering Co. Unsaturated polymer, derivatives and process of preparation. 3,356,664, 12-5-67, Cl. 260—93.7.
Rhodes, Robert A., G. R. Hrubant, and M. S. Roth, to United States of America, Agriculture. Process of making spore-containing cultures of Japanese beetle milky disease bacteria. 3,308,038, 3-7-67, Cl. 195—96.
Rhodes, Thomas J.: *See*—
Black, Sheppard A., Heide, and Rhodes. 3,306,804.
Black, Sheppard A., Heide, and Rhodes. 3,318,745.
Black, Sheppard A., Heide, and Rhodes. 3,323,970.
Rhodes, Wallace F.: *See*—
Momchilovich, Milan, and Rhodes. 3,299,816.
Momchilovich, Milan, and Rhodes. 3,348,598.
Rhodes, William A. Multicell oxyhydrogen generator. 3,310,-483, 3-21-67, Cl. 204—268.
Rhodes, William A. Shearing device for bone holding pins. 3,315,669, 4-25-67, Cl. 128—83.
Rhodes, William A., and R. A. Henes, to Henes Mfg. Co. Means and method for the electrolytic production of hydrogen and oxygen for the safe consumption thereof. 3,357,472, 12-12-67, Cl. 158—27.4.
Rhodes, William E., to Robertshaw Controls Co. Blade actuator and supporting bracket for switches and the like. 3,303,708, 2-14-67, Cl. 74—104.
Rhodes, William E., to Robertshaw Controls Co. Fluid pressure regulator switch. 3,325,614, 6-13-67, Cl. 200—83.
Rhodes, William E., to Robertshaw Controls Co. Pressure switch. 3,359,387, 12-19-67, Cl. 200—83.
Rhodia Inc.: *See*—
Meuly, Walter C., and Gradeff. 3,296,080.
Rhodin, Thor N., Jr., to Union Carbide Corp. Niobium base alloy. 3,346,379, 10-10-67, Cl. 75—174.
Rhomberg, Friedrich, to Brown, Boveri & Cie, Aktiengesellschaft. Blading structure for axial flow turbo-machines. 3,333,817, 8-1-67, Cl. 253—77.
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Baget, Jean G., and Sarret. 3,324,129.
Blachere, Albert M. E., and Breant. 3,318,842.
Boesch, Roger, and Metivier. 3,337,575.
Boissieras, Jean, Ceyzeriat, and Lefort. 3,318,898.
Boissieras, Jean, Ceyzeriat, and Lefort. 3,359,237.
Bonnet, Yannik, and Vivant. 3,330,854.
Brossard, Bernard P. 3,337,604.
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Ceyzeriat, Louis F., and Pagni. 3,325,449.
Chomel, Marc L., and Tiano. 3,308,987.
Colleuille, Yves, and Perras. 3,355,462.
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Convert, Lucien, and Fabre. 3,313,788.
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Fouche, Jean C. L. 3,325,497.
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Metivier, Jean, and Sauli. 3,356,568.
Ninet, Leon, Pinnert, and Preud'Homme. 3,330,726.
Pages, Jacques H. L. 3,322,963.
Schuppon, Charles R. M. 3,303,093.
Rhone, Wilson C., and H. L. Roudabush, to General Refractories Co. Refractory brick wall with a comolded hanger assembly. 3,327,445. 6-27-67, Cl. 52—486.
Rhorer, Cecil R., to Kimberly-Clark Corp. Method of making cockled paper. 3,360,393, 12-26-67, Cl. 117—38.
Rhude, Maurice J. Portable display cases. 3,325,934, 6-20-67, Cl. 40—102.
Rhymes, Cassius D., Jr. Pipe rack. 3,356,229, 12-5-67, Cl. 211—60.
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Rhyne, Earl C., Jr., to Dielectric Products Engineering Co., Inc. A.C. power supply system having alternate sources of supply. 3,339,082, 8-29-67, Cl. 307—66.
Rhyne, Earl C., Jr., to The Warren Mfg. Co. Choked ferroresonant transformer system. 3,341,766, 9-12-67, Cl. 321—9.
Rhyne, Earl C., Jr., and J. Contino, to Dielectric Products Engineering Co., Inc. Pole changer type frequency converter. 3,300,708, 1-24-67, Cl. 321—69.
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Wise, Cecil S., and Rhyne. 3,308,786.
Rhyner, Heinz, and R. Vors, to Ateliers des Charmilles S.A. Apparatus for machining by electro erosion. 3,348,015, 10-17-67, Cl. 219—69.
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Artz, Klaus, and Rhyner. 3,342,803.
Rhyner, Paul, and K. Artz, to Ciba Ltd. 2,4-dinitrophenyl-azo-2-alkanoylamino-5-alkoxy-bis-(B - cyanoethoxyethyl) - benzene dyestuffs. 3,325,471, 6-13-67, Cl. 260—207.
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Riat, Henri: *See*—
Wegmann, Jacques, Hefti, Becker, and Riat. 3,304,297.
Riat, Henri, and K. Seitz, to Ciba Ltd. Water-soluble organic dyestuffs. 3,316,239, 4-25-67, Cl. 260—163.
Riat, Henri, and K. Seitz, to Ciba Ltd. Monoazo triazine dyestuffs. 3,326,887, 6-20-67, Cl. 260—153.
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Ribaldone, Giuseppe: *See*—
Brichta, Corrado, Nenz, Ribaldone, Borsotti, and Gallinella. 3,359,314.
Ribaldone, Giuseppe, A. Nenz, and C. Brichta, to Societa Edison. Method of producing ω-lactams. 3,328,393, 6-27-67, Cl. 260—239.3.
Ribaldone, Giuseppe, F. Smai, and G. Borsotti, to Societa Edison. Process for producing ω-lactams. 3,328,394, 6-27-67, Cl. 260—239.3.
Ribback, Erich. Hydraulic press. 3,358,493, 12-19-67, Cl. 72—407.
Ribbelink, Willem. Panel provided with a number of socket contacts which are arranged in a definite pattern. 3,353,-139, 11-14-67, Cl. 339—18.
Ribbentrop, Annemarie: *See*—
Popelak, Alfred, Letterbauer, Schaumann, and Ribbentrop. 3,337,557.
Popelak, Alfred, Letterbauer, Schaumann, and Ribbentrop. 3,337,559.
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Ribka, Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble monoazo dyestuffs. 3,325,470, 6-13-67, Cl. 260—193.

Ribka, Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble monoazo-dyestuff. 3,342,802, 9–19–67, Cl. 260—203.
Ribka, Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 2-chloro-4H-1,3,2-dioxaphosphorin-4-ones and process for preparing them. 3,360,-528, 12–26–67, Cl. 260—315.
Riblet, Henry J. Balanced phase type frequency discriminators. 3,314,017, 4–11–67, Cl. 329—116.
Riblet Tramway Co.: *See*—
Sowder, Tony R. 3,347,172.
Riboni, Ubaldo: *See*—
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Ricard, Armand G., to Societe Anonyme des Ateliers d'Aviation Louis Breguet. High-speed aircraft. 3,334,845, 8–8–67, Cl. 244—120.
Ricard, Carl A.: *See*—
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Ricard, Maurice, to Compagnie du Filage des Mataux et des Joints Curty (Cefilac). Method and apparatus for handling ferromagnetic sheets. 3,339,915, 9–5–67, Cl. 271—18.
Ricardo & Co., Engineers (1927) Ltd.: *See*—
Millington, Brian W., Scott, and Freese. 3,342,422.
Scott, William M. 3,332,407.
Scott, William M., Millington, and Freese. 3,332,408.
Ricards, Charles L.: *See*—
Toilison, Paul L., Ricards, and Schkeeper. 3,300,819.
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Ricci, Fausto M. Container. 3,341,064, 9–12–67, Cl. 220—97.
Ricci, Fausto M. Receptacle. 3,346,137, 10–10–67, Cl. 220—236.
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Rimmer, Robert V., and Ricci. 3,296,393.
Ricciardi, Giuseppe: *See*—
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Fischer, George A., and Ricciardi. 3,352,630.
Ricciardi, Ronald J. Material handling equipment. 3,353,720, 11–21–67, Cl. 222—200.
Riccio, Pasquale R., to Scovill Mfg. Co. One-piece aerosol spray head. 3,335,965, 8–15–67, Cl. 239—589.
Rice, Alvist V., M. G. De Fries, and R. C. Webster, to Atlantic Research Corp. Method of making an inhibited, gas-producing charge. 3,338,990, 8–29–67, Cl. 264—3.
Rice, Archie H., and W. R. Conley, to General Services Co. Filter and method of making same. 3,343,680, 9–26–67, Cl. 210—263.
Rice Barton Corp.: *See*—
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Hamilton, Alan R. 3,357,345.
Krikorian, Garo. 3,296,710.
Krikorian, Garo, and Reitzel. 3,337,968.
Reitzel, Nicolas M. 3,320,677.
Rice, Billy D., and W. P. Stadig, to Petro-Tex Chemical Corp. Polymerization of butene-1 in the presence of a minor amount of isobutylene. 3,324,098, 6–6–67, Cl. 260—93.7.
Rice, Charles M., to The American Enka Corp. Apparatus for treating yarn. 3,319,411, 5–16–67, Cl. 57—38.3.
Rice, David E.: *See*—
Crawford, George H., Jr., and Rice. 3,321,454.
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Rice, Doris M., to Jefferson Chemical Co., Inc. 1,4-bis(3-dimethylaminopropyl)piperazines catalyst for polyurethane preparation. 3,313,744, 4–11–67, Cl. 260—2.5.
Rice, Edward K. Yieldable connector for concrete substructures. 3,329,072, 7–4–67, Cl. 94—18.
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Rice, Frederick A. H., to United States of America, Navy. Method for cross-linking cellulose compounds by intramolecular esterification. 3,317,513, 5–2–67, Cl. 260—214.
Rice, Hal H., and M. J. Garey, to General Motors Corp. Method of making magnesium fluoride articles. 3,301,781, 1–31–67, Cl. 252—12.
Rice, Harold B., to John Burton Machine Corp. Apparatus for applying carriers to bottles and the like. 3,302,364, 2–7–67, Cl. 53—3.
Rice, Harold B., to John Burton Machine Corp. Conveyor structure. 3,329,257, 7–4–67, Cl. 198—204.
Rice, Harold B., to John Burton Machine Corp. Conveyor structure. 3,332,538, 7–25–67, Cl. 198—204.
Rice, Harold B., and H. R. Swenson, to John Burton Machine Corp. Method and apparatus for emptying liquid containers. 3,348,734, 10–24–67, Cl. 222—1.
Rice, Harold D., and S. L. Leach, to PID Corp. Apparatus for making pictorial parallax panoramagran units. 3,348,264, 10–24–67, Cl. 18—10.
Rice, Harold W., to Robertshaw Controls Co. Thermostatic control device. 3,298,606, 1–17–67, Cl. 236—21.
Rice, James, to General Electric Co. Rolling mill apparatus. 3,339,393, 9–5–67, Cl. 72—240.
Rice, Jim A.: *See*—
Leadbetter, Gilbert E., and Rice. 3,312,483.
Rice, John N.: *See*—
Duffield, Stanley H., and Rice. 3,314,351.
Rice, Joseph C., and R. R. Wells, to Screen Gems, Inc. Audience reaction devices. 3,319,254, 5–9–67, Cl. 346—37.
Rice, Leonard M.: *See*—
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Grogan, Charles H., and Rice. 3,344,145.
Rice, Leonard M., and M. E. Freed, to American Home Products Corp. Substituted cycloalkanoindoles. 3,325,510, 6–13–67, Cl. 260—313.1.
Rice, Leonard M., and M. E. Freed, to American Home Products Corp. Methods for treating depression. 3,329,571, 7–4–67, Cl. 167—65.
Rice, Leonard M., and C. H. Grogan, to Tri-Ken Corp. Spiro acids. 3,350,442, 10–31–67, Cl. 260—514.
Rice, Livingston L.: *See*—
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Rice, Orval L., to The New York Air Brake Co. Valve. 3,335,-739, 8–15–67, Cl. 137—115.
Rice, Rex, to International Business Machines Corp. Automatic data correction for batch-fabricated memories. 3,350,-690, 10–31–67, Cl. 340—172.5.
Rice, Richard E., to Comstock & Wescott, Inc. Heat-storage breather system. 3,320,724, 5–23–67, Cl. 55—269.
Rice, Richard E., and W. E. Whitney, to Comstock & Wescott, Inc. Heat-storage apparatus. 3,299,945, 1–24–67, Cl. 165—4.
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Rice, Rip G., and M. V. Ernest, to W. R. Grace & Co. Sulfonated polymeric phosphonitriles. 3,357,931, 12–12–67, Cl. 260—2.2.
Rice, Robert C., Jr. Aerosol shaving cream dispenser and applicator. 3,350,159, 10–31–67, Cl. 401—190.
Rice, Robert F.: *See*—
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Rice, Roger A., to Caterpiller Tractor Co. Resilient link construction. 3,343,858, 9–26–67, Cl. 287—119.
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Rice, Warren, to Texas Instruments Inc. Temperature transducer. 3,343,114, 9–19–67, Cl. 338—22.
Rice, Warren A., to Chemotronics, Inc. Process utilizing rapid and transient heating. 3,329,759, 7–4–67, Cl. 264—321.
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Rich, George L.: *See*—
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Rich, Harold M., to Chemetron Corp. Cryogenic method and apparatus for quick freezing. 3,315,480, 4–25–67, Cl. 62—63.
Rich, Harold M., M. V. Artiaga, A. Wolf, H. Van Eikeren, J. L. DeKeizer, and A. Storrie, to Kitchens of Sara Lee, Inc. High speed cutter. 3,318,266, 5–9–67, Cl. 107—69.
Rich, Harold M., A. Wolf, H. Van Eikeren, and A. Storrie, to Kitchens of Sara Lee, Inc. Butter extruder. 3,333,567, 8–1–67, Cl. 118—24.
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Rich, John, and G. Arthur, to International Research & Development Co. Ltd. Coated boron containing material dispersed in a metal matrix. 3,356,618, 12–5–67, Cl. 252—478.
Rich, John P., to Improved Machinery Inc. Pulp treatment apparatus. 3,301,027, 1–31–67, Cl. 68—181.
Rich, Linvil G., to FMC Corp. Sewage treatment process. 3,337,448, 8–22–67, Cl. 210—3.
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Rich, Samuel, to Acorn Products Co. Sliding window construction. 3,324,597, 6–13–67, Cl. 49—406.
Rich, Scott R. Mobile building with towing bracket and bracing system. 3,356,381, 12–5–67, Cl. 280—30.
Rich, Theodore A., to General Electric Co. Flame spectrophotometer using ionization current detection. 3,330,960, 7–11–67, Cl. 250—218.
Rich, Theodore A., to General Electric Co. Apparatus for determining aerosol particle size comprising a combined diffuser-denuder. 3,351,759, 11–7–67, Cl. 250—83.6.
Richard, Charles D.: *See*—
Turner, Sally I., and Richard. 3,349,441.
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Richard Engineering Co.: *See*—
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Richard, Jean M., to Service d'Exploitation Industrielle des Tabec et des Allumetter. Device for ejecting tobacco leaf-trimmings. 3,318,178, 5–9–67, Cl. 83—98.
Richard, Joseph D. Echo ranging and recording apparatus. 3,324,451, 6–6–67, Cl. 340—3.
Richard, Joseph D. Water sampling apparatus. 3,339,417, 9–5–67, Cl. 73—425.4.
Richard, Joseph D. Pulse interval recording apparatus. 3,339,543, 9–5–67, Cl. 128—2.06.
Richard, Norbert G.: *See*—
Barrilleaux, Leo S., Jr., and Richard. 3,338,439.
Richard, Paul P., and J. L. J. Pellat-Finet. System for proportionally supercharging power units. 3,296,791, 1–10–67, Cl. 60—19.
Richard, Richard R., to United States of America, National Aeronautics and Space Administration. Angular accelerometer. 3,295,377, 1–3–67, Cl. 73—517.
Richard, William H.: *See*—
King, James R., Pietras, and Richard. 3,333,246.
Richard, William H., L. A. Mitta, E. Loizides, D. Mackie, J. R. Carthew, and L. T. O'Connor, Jr., to International Business Machines Corp. Transmission control unit. 3,337,-855, 8–22–67, Cl. 340—172.5.
Richard, William H., and L. T. O'Connor, Jr., to International Business Machines Corp. Communication line priority servicing apparatus. 3,353,162, 11–14–67, Cl. 340—172.5.
Richard, William R., Jr.: *See*—
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Richards, Albert M. Inhalator. 3,316,903, 5–2–67, Cl. 128—29.
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Saunders, Fred Q. 3,332,478.

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Ross, Frank, and Richter. 3,316,264.

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Richter, Sidney B., to Velsicol Chemical Corp. Diphosphates of xylylene. 3,325,568, 6-13-67, Cl. 260—930.

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Richter, Sidney B., to Velsicol Chemical Corp. Methoxy chlorobenzyl alcohols. 3,356,737, 12-5-67, Cl. 260—613.

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Richter, Sidney B., and A. A. Levin, to Velsicol Chemical Corp. Dialkyl - 2 - alkoxy-3,5,6-trihalotere-phthalates. 3,301,892. 1-31-67, Cl. 260—473.

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Richter, Sidney B., and A. A. Levin, to Velsicol Chemical Corp. Methyl-N-propyl tetrahaloterephthalates. 3,341,571, 9-12-67, Cl. 260—475.

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Richter, Sven U. K. A., and H. S. Schnitzer, to Del Bell & Richardson, Inc. Dielectric lens material comprising a halogenated epoxy resin composition and a polymerized vegetable oil derived polyamide resin. 3,316,188, 4-25-67, Cl. 260—2.5.

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Richtzenhain, Hermann, and M. Simon, to Dynamit Nobel Aktiengesellschaft. Process for the production of corrosion-resistant and highly wear-resistant coated surface and the coated surface. 3,360,391, 12-26-67, Cl. 117—26.

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Rieger, Francis C., to Kingston Products Corp. Extendible steering control. 3,306,127, 2–8–67, Cl. 74—493.

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Riestenberg, Eugene H., to The Central Carton Co. Display package having sliding tray. 3,326,371, 6–20–67, Cl. 206—78.

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Rietdijk, Johan A., to North American Philips Co., Inc. Device including at least two seals in the form of rolling diaphragms. 3,318,200, 5–9–67, Cl. 92—61.

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Rieth, Harold F., to Packard-Bell Electronics Corp. Television receiving set tuning mechanism. 3,356,972, 12–5–67, Cl. 334—49.

Rieth, Harold F., and G. O'Leary, to Packard-Bell Electronics Corp. Color television degaussing apparatus. 3,340,443, 9–5–67, Cl. 317—157.5.

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Rigler, Ernest M. Heated muff hand exerciser. 3,347,240, 10–17–67, Cl. 128—363.

Rigney, James A., and C. L. Aldridge, to Esso Research and Engineering Co. Olefins by hydrogen transfer. 3,321,545, 5–23–67, Cl. 260—683.9.

Rigney, James A., R. B. Mason, and G. P. Hamner, to Esso Research and Engineering Co. Selective hydrocracking with a sulfur containing cadmium zeolite catalyst. 3,337,447, 8–22–67, Cl. 208—111.

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McRae, Wayne A., and Rigopulos. 3,330,750.

Rigopulos, Peter N., and R. H. Blackmer, to General Electric Co. Liquid handling system. 3,309,843, 3–21–67, Cl. 55—35.

Rigor, Herbert W. Lockable container closure. 3,311,247, 3–28–67, Cl. 215—9.

Rigrod, William W., to Bell Telephone Laboratories, Inc. Attenuation measuring device using an optical maser. 3,322,026, 5–30–67, Cl. 88—14.

Rigsby, Lonnie D. Bale unloading clamp device. 3,325,029, 6–13–67, Cl. 214—653.

Rigterink, Raymond H., to The Dow Chemical Co. Phosphoramidothioates. 3,312,706, 4–4–67, Cl. 260—281.

Rigterink, Raymond H., to The Dow Chemical Co. Active toxicant O-(5-cyano-2-pyridyl)O,O-dialkyl phosphoro thioate esters for controlling pests. 3,326,752, 6–20–67, Cl. 167—33.

Rils, John B., to Luxo Lamp Corp. Equipoise mechanism particularly for supporting lamps and small television sets. 3,311,340, 3–28–67, Cl. 248—284.

Rijnsdorp, Johannes E., to Shell Oil Co. Method and apparatus for the control of a continuously operating superatmospheric distillation process. 3,342,698, 9–19–67, Cl. 203—1.

Rijnsdorp, Johannes E., to Shell Oil Co. Continuously operating superatmospheric distillation process control and apparatus therefor. 3,342,699, 9–19–67, Cl. 203—1.

Rijnsdorp, Johannes E., to Shell Oil Co. Method and apparatus for the control of a continuously operating superatmospheric distillation process. 3,342,700, 9–19–67, Cl. 203—1.

Rijnsdorp, Johannes E., to Shell Oil Co. Continuously operating superatmospheric distillation process control and apparatus therefor. 3,342,701, 9–19–67, Cl. 203—2.

Rijnsdorp, Johannes E., to Shell Oil Co. Control process and apparatus for continuously operating superatmospheric distillation. 3,342,702, 9–19–67, Cl. 203—2.

Rijnsdorp, Johannes E., to Shell Oil Co. Continuously operating superatmospheric distillation process control and apparatus therefor. 3,344,040, 9–26–67, Cl. 203—1.

Rijnsdorp, Johannes E., J. A. van Kampen, and H. Bollen, to Shell Oil Co. Apparatus for the automatic control of a continuous distillation process. 3,336,205, 8–15–67, Cl. 196—132.

Rijssenbeek, Robertus C. J. M., to N.V. Papierfabriek Gennep. Method of sterilizing hygienic paperware. 3,310,364, 3–21–67, Cl. 21—2.

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Rike, Richard C., to General Motors Corp. Vehicle brake actuating assembly and floorboard arrangement. 3,327,804, 6–27–67, Cl. 180—90.6.

Riker, Warren N. Sanding disc assembly. 3,345,785, 10–10–67, Cl. 51—362.

Riker, William M., to Dynalectron Corp. Phase-lock system responsive to very low frequency input signals. 3,344,358, 9–26–67, Cl. 329—122.

Rikimaru, Mitsuo: *See*—
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Riley, Charles P., Jr., R. Strauss, and H. R. Lasman, to National Polychemicals, Inc. Activated azodicarbonamide blowing agent compositions. 3,321,413, 5–23–67, Cl. 260—2.5.

Riley, Charles P., Jr., R. Strauss, and H. R. Lasman, to National Polychemicals, Inc. Activated azodicarbonamide. 3,340,209, 9–5–67, Cl. 260—2.5.

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Riley, George R., and T. M. Trainer, to United States of America, Army. Hand-manipulated, hydraulic digging tool. 3,330,602, 7–11–67, Cl. 299—34.

Riley, Harry L., to United Coke & Chemicals Co., Ltd. Production of electrically conducting carbon. 3,309,326, 3–14–67, Cl. 252—503.

Riley, Harry L., and A. Romanski, to United Coke and Chemicals Co., Ltd. Method of producing phthalic anhydride. 3,352,887, 11–14–67, Cl. 260—346.4.

Riley, Howard E., Jr., to Chrysler Corp. Cargo lid assist mechanism. 3,319,993, 5–16–67, Cl. 296—76.

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Riley, James E., and B. B. Williams, to Texas Instruments Inc. Dielectric devices. 3,320,484, 5–16–67, Cl. 317—101.

Riley, John E., and R. W. Smith, to Melpar, Inc. Dew collecting method and apparatus. 3,318,107, 5–9–67, Cl. 62—272.

Riley, John J., J. W. Erickson, and W. R. Harding, to Westinghouse Electric Corp. Direct current dynamoelectric machine. 3,316,430, 4–25–67, Cl. 310—204.

Riley, Marcia M. Safety belts for infants. 3,295,501, 1–3–67, Cl. 119—96.

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Riley, Robert H., Jr., and W. W. Chambers, to The Black and Decker Mfg. Co. Noise-suppressed gears and the like. 3,320,824, 5–23–67, Cl. 74—443.

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Rillo, Nicholas J. Wallboard corner construction and method. 3,350,825, 11–7–67, Cl. 52—288.

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Bour, Stanley H., and Rimlinger. 3,340,366.

Rimmer, Robert V., and L. N. Ricci, to Westinghouse Electric Corp. Enclosure with external means for operating an enclosed circuit interrupter. 3,296,393, 1–3–67, Cl. 200—50.

Rimmer, Ronald, and N. M. Miller, to Bristol Siddeley Engines, Ltd. Jet engine shock wave control including fuel supply and exhaust nozzle regulation. 3,314,238, 4–18–67, Cl. 60—235.

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Rinaldi, Massimo, to Industria Macchine Elettroniche-I.M.E. Circuit for displaying the decimal location in electronic type arithmetical computing devices, particularly in connection with digital data readout devices on decimal indicators. 3,358,125, 12–12–67, Cl. 235—92.

Rinaldi, Russell G., and B. B. Moore, to International Business Machines Corp. Data compression/expansion and compressed data processing. 3,310,786, 3–21–67, Cl. 340—172.5.

Rinaldo, Michael S. Snowplow blade for automobile bumper mounting. 3,316,665, 5–2–67, Cl. 37—42.

Rinckhoff, John B., to Chemical Construction Corp. Production of sulfuric acid. 3,350,169, 10–31–67, Cl. 23—168.

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Rindt, Gustav, and D. H. Becking, to The Udylite Corp. Electrodeposition of zinc. 3,318,787, 5–9–67, Cl. 204—55.

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Rinehart, Robert E., and R. W. Fuest, to United States Rubber Co. Dehydrogenation of cyclooctene. 3,305,593, 2–21–67, Cl. 260—666.

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Rinfret, Arthur P., C. W. Cowley, and W. J. Timson, to Union Carbide Corp. Apparatus for the preservation of biological substances. 3,344,617, 10–3–67, Cl. 62—322.

Rinfret, Arthur P., C. W. Cowley, and G. F. Doebbler, to Union Carbide Corp. Process for freezing erythrocytes. 3,347,745, 10–17–67, Cl. 167—74.

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Ringley, Edward, and E. J. Grazulis, to Gulf Oil Corp. Process for extrusion of tubular plastic film with external and internal spray cooling. 3,311,682, 3–28–67, Cl. 264—95.

Ringley, Michael P., to West Virginia Pulp and Paper Co. Device for storing and retrieving information. 3,358,920, 12–19–67, Cl. 235—88.

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Ringold, Howard J., E. Batres, G. Rosenkranz, O. Mancera, and A. Bowers, to Syntex Corp. 6α-chloro-17α-hydroxy progesterone and intermediates obtained in the production thereof. 3,322,796, 5–30–67, Cl. 260—397.4.

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Ringold, Howard J., and C. Djerassi, to Syntex Corp. 6α,16α-dimethyl-1,4-pregnadien-17α-ol-3,20-dione and esters thereof. 3,350,426, 10–31–67, Cl. 260—397.4.

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Ringzelli, Arthur J., and E. H. Rombin, to Acro Die and Stamping Co. Hand tool for adjusting needle eye laps. 3,329,001, 7–4–67, Cl. 72—409.

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Riondel, Pierre, and J.-P. Garnier, to Societe Anonyme des Ateliers de Secheron. Device for controlling the contactors of an electric motor. 3,344,333, 9–26–67, Cl. 318—393.

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Riou, Marcel, and J.-M. Michel, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Graft copolymers of polyvinyl chloride with butadiene, acrylate ester and diethylenic compound. 3,330,886, 7–11–67, Cl. 260—879.

Ripka, Josef, J. Lanta, M. Chrtek, and M. Mársálek. Spinning chamber for removing impurities from fibers. 3,339,359, 9–5–67, Cl. 57—58.89.

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Rischard, Robert A., and J. E. Jessup, to Anaconda Wire and Cable Co. Flexible cable bus duct including grounding means and telescopically engaging tubular members permitting expansion and contraction. 3,301,940, 1–31–67, Cl. 174—78.

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Rise, William E., to General Motors Corp. Split master brake cylinder. 3,332,240, 7–25–67, Cl. 60—54.6.

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Riseman, John H., and J. W. Ross, to Corning Glass Works. Electronic device for extrapolating exponential signals. 3,333,185, 7–25–67, Cl. 324—30.

Riseman, John H., and D. S. Zagoroff, to Corning Glass Works. Valve system. 3,356,106, 12–5–67, Cl. 137—624.12.

Riseman, John H., and J. W. Ross, to Corning Glass Works. Electrolytic sensor with water diffusion compensation. 3,357,908, 12–12–67, Cl. 204—195.

Riseman, John H., J. W. Ross, and G. Eisenman, to Corning Glass Works. Glass electrodes. 3,357,909, 12–12–67, Cl. 204—195.

Risetto, Victor L. Lever actuated lifting instrument, more particularly intended for automobiles. 3,321,183, 5–23–67, Cl. 254—131.

Risher, Donald B., to United States of America, Navy. Multitransducer pressure measuring device. 3,326,046, 6–20–67, Cl. 73—389.

Risher, John D. Stamping or blanking die. 3,319,501, 5–16–67, Cl. 83—698.

Risk, George, R. C. Root, and J. E. Sotir, to Loup Engineering Co. Pivotal door construction and method. 3,300,900, 1–31–67, Cl. 49—381.

Risk, George, and R. C. Root, to Loup Engineering Co. Foldable shower door construction. 3,335,784, 8–15–67, Cl. 160—199.

Risk, George, and R. C. Root, to Richleu Corp. Heat dissipator apparatus. 3,342,255, 9–19–67, Cl. 165—80.

Risk, James B., and F. E. Murray, to British Columbia Research Council. Method and apparatus for hydrogen sulfide determination. 3,300,282, 1–24–67, Cl. 23—232.

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Jucker, Ernst, Ebnother, and Rissi. 3,325,501.

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Ristau, Arnold E. and A. G. 3,318,427.

Ristau, Arnold E. and A. G. Device for accumulating and dispensing coins. 3,318,427, 5–9–67, Cl. 194—2.

Ristau, Theodore F., to General Motors Corp. Constant velocity universal joint. 3,310,961, 3–28–67, Cl. 64—21.

Ristorcelli, Theodore. Combined sunglasses and hair comb. 3,338,657, 8–29–67, Cl. 351—158.

Rita, Albert M. Decorative shoe lace keeper. 3,345,707, 10–10–67, Cl. 24—120.

Ritchey, Jack L.: *See*—
Brownlee, Winston E., and Ritchey. 3,348,476.
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Ritchey, James F.: *See*—
Field, Nathaniel L., and Ritchey. 3,308,250.
Ham, James H., Jr., Ritchey, and Tolman. 3,316,357.

Ritchey, Thomas W., Jr., and L. J. Bazin, to Radio Corp. of America. Scanning system for use in character reading with circuit means to compensate for lag in the photoconductive pickup device. 3,303,281, 2–7–67, Cl. 178—7.2.

Ritchie, Alan R., and K. Holland, to Macarthys Ltd. Indicating devices for heat treatment. 3,324,723, 6–13–67, Cl. 73—358.

Ritchie, Alexander C.: *See*—
Barton, Derek H. R., Hems, Walker, Ritchie, Meredith, Holton, Clark, Webb. 3,301,858.

Ritchie, David S., to Barr and Stroud Ltd. Apparatus for positioning or printing names in cartographic processes. 3,323,413, 6–6–67, Cl. 88—24.

Ritchie, David S. Photo type setting machines. 3,347,140, 10–17–67, Cl. 95—4.5.

Ritchie, David S., and T. M. Glass. Apparatus for automatically copying lines. 3,323,414, 6–6–67, Cl. 88—24.

Ritchie, Douglas E. Direct acting variable pump. 3,314,365, 4–18–67, Cl. 103—38.

Ritchie, Douglas E., to Hewlett-Packard Co. Instrument housing retaining member. 3,347,608, 10–17–67, Cl. 312—216.

Ritchie, Glen. Tensioned strand type duct forming mechanism. 3,313,671, 4–11–67, Cl. 156—425.

Ritchie, Harold D.: *See*—
Entringer, James S., Marks, and Ritchie. 3,352,419.

Ritchie, Kim, and J. W. Addleburg, to Eastman Kodak Co. Color stabilized cellulose esters and compositions containing neopentyl phosphite. 3,305,378, 2–21–67, Cl. 106—177.

Ritchie, Malcolm I.: *See*—
Gardner, John, and Ritchie. 3,309,140.

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Cox, Norman P., and Ritchie. 3,352,105.

Ritchie, Wallace J., to United Aircraft of Canada Ltd. Air inlet screen. 3,319,402, 5–16–67, Cl. 55—306.

Ritchie, William D. Chemical incorporator. 3,306,240, 2–28–67, Cl. 111—6.

Ritchie, William D. Optionally and automatically controlled rear caster wheels on prime mover trailed vehicle assemblies. 3,324,956, 6–13–67, Cl. 172—386.

Rite-A-Sign, Inc.: *See*—
Edwards, Arthur T. 3,301,287.

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Rither, Lee S. Humidifier for heating systems. 3,303,837, 2–14–67, Cl. 126—113.

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Ritson, Daniel D.: *See*—
Frazier, Charles, and Ritson. 3,297,615.
Savina, Anthony R., and Ritson. 3,316,123.

Ritson, Daniel D., to American Cyanamid Co. Amino formaldehyde resin solutions of decreased reactivity, and said solutions admixed with film forming proteins. 3,321,418, 5–23–67, Cl. 260—7.

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Rittenbach, Otto E. Frequency step filter. 3,349,350, 10–24–67, Cl. 334—47.

Rittenhouse, Godfrey J.: *See*—
Galloway, Frederick M., Rittenhouse, and Sinnamon. 3,310,323.

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Rittenhouse, William E.: *See*—
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Nurre, Thomas C., McFarland, and Ritter. 3,322,321.

Ritter, Ernst G., to General Aniline & Film Corp. Plastic container. 3,355,061, 11–28–67, Cl. 220—60.

Ritter, Frederick J.: *See*—
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Wolter, Gilbert R., Chambers, and Ritter. 3,333,825.

Ritter, Frederick J., to Sunbeam Corp. Hair dryer cap. 3,335,502, 8–15–67, Cl. 34—99.

Ritter, George F., Jr.: *See*—
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Ritter, George F., Jr., to Libbey-Owens-Ford Glass Co. Method and apparatus for producing a continuous glass ribbon. 3,337,317, 8–22–67, Cl. 65—25.

Ritter, George F., Jr., to Libbey-Owens-Ford Glass Co. Method and apparatus for press bending and tempering glass sheets. 3,338,695, 8–29–67, Cl. 65—104.

Ritter, Gerald J., to The Barbizon Corp. Women's slip. 3,339,553, 9–5–67, Cl. 128—454.

Ritter, Heinrich, R. Beyerle, and R.-E. Nitz, to Cassella Farbwerke Mainkur Aktiengesellschaft. Ethers of 3-alkylamino-4-methyl-7-hydroxy coumarin. 3,311,635, 3–28–67, Cl. 260—294.3.

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Schodterer, Erich. 3,302,619.

Ritter, Josef: *See*—
Gott, Hans, and Ritter. 3,307,715.

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Lang, Charles F., Ritter, and Claiborne. 3,316,748.

Ritter, Karlheinz, to General Protection Establishment. Lightning rod with ionizing field. 3,328,508, 6–27–67, Cl. 174—4.

Ritter, Karlheinz, to General Protection Establishment. Lightning rod with great ionizing power. 3,350,496, 10–31–67, Cl. 174—4.

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Allgaier, Erwin, and Ritter. 3,313,108.
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Ritter, Lawrence: *See*—
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Ritter Pfaudler Corp.: *See*—
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Calmon, Calvin, Greer, and Wood. 3,342,755.
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Jen Chao, Pao, and Zupan. 3,337,363.
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Nugent, John I. 3,339,785.
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Rittner, Helmut, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for regulating load consumption. 3,305,765, 2–21–66, Cl. 323—19.

Ritz, Josef: *See*—
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Ritz, Ludolf, to Gesellschaft Fuer Kernforschung m.b.H. Gas cooled nuclear reactor core and steam generator plant embodying same. 3,309,279, 3–14–67, Cl. 176—40.

Ritz, Ludolf, to Gesellschaft Fuer Kernforschung m.b.H. Steam generator, particularly in circuits for nuclear reactors. 3,324,835, 6–13–67, Cl. 122—31.

Ritzema, James R., to General Motors Corp. Hydrokinetic fluid drive. 3,338,115, 8–29–67, Cl. 74—730.

Ritzerfeld, Gerhard: *See*—
Ritzerfeld, Wilhelm and G. 3,358,593.

Ritzerfeld, Gerhard. Filing cabinet with tiltable drawer. 3,320,010, 5–16–67, Cl. 312—323.

Ritzerfeld, Gerhard. Card controlled selective rotary printing machine. 3,323,449, 6–6–67, Cl. 101—91.

Ritzerfeld, Gerhard. Feeding apparatus for printing machines. 3,335,662, 8–15–67, Cl. 101—235.

Ritzerfeld, Wilhelm and G. Apparatus for printing selected sections of a printing form. 3,358,593, 12–19–67, Cl. 101—91.

Rival Mfg. Co.: *See*—
McLean, Robert E. 3,314,144.
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Rively, Clair M., and P. A. Livera, to Westinghouse Electric Corp. Method of bonding a boron nitride body to a refractory metal. 3,344,505, 10–3–67, Cl. 29—473.1.

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Riviana Foods Inc.: *See*—
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Riv-Kap, Inc.: *See*—
Halko, John J., Jr. 3,349,984.
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Rivman, Samuel J., and H. A. Carysforth, to Gulf Oil Corp. Reclosable container. 3,321,126, 5–23–67, Cl. 229—65.

Rivolta, Luis A. Device for temporarily replacing an automotive vehicle road wheel. 3,317,218, 5–2–67, Cl. 280—150.

Rixe, Frederick H.: *See*—
Fast, Clarence R., Howard, and Rixe. 3,354,959.

Rixmann, Amos E., and L. E. Knapp. Endless track construction. 3,347,602, 10–17–67, Cl. 305—54.

Rizk, Waheeb, and C. A. Keer, to The English Electric Co. Ltd. Turbines. 3,300,178, 1–24–67, Cl. 253—39.1.

Rizk, Waheeb, and R. Bolesworth, to The English Electric Co. Ltd. Turbine duct mounting installation. 3,327,476, 6–27–67, Cl. 60—39.31.

Rizzato, Francesco C. Lockable joint device for a cycle saddle mounted on an orientable saddle-holder. 3,302,970, 2–7–67, Cl. 297—195.

Rizzato, Francesco C. Bicycle with single beam frame. 3,337,240, 8–22–67, Cl. 280—278.

Rizzi, Louis H., to Raytheon Co. Pulse coupling network. 3,339,200, 8–29–67, Cl. 343—17.1.

Rizzo, Angelo J., Jr. Concealed weapon. 3,354,570, 11–28–67, Cl. 42—1.

Rizzo, George E., J. A. Velt, and J. E. Ludick. Strip map holder and viewer. 3,325,933, 6–20–67, Cl. 40—86.

Rizzo, John J.: *See*—
Talbert, Norbert E., and Rizzo. 3,296,148.

Rizzo, John J., to FMC Corp. Flame-retardant epoxy resin compositions. 3,312,636, 4–4–67, Cl. 260—2.

Rizzo, Louis D., to Danlin Mfg. Co. Disposable rotary brush spacer ring. 3,300,805, 1–31–67, Cl. 15—181.

Rjabov, Vladimir R., D. M. Rabkin, and A. V. Lozovskaja, to Institute Elektrosvarki Imeni E. O. Patona. Method of weld-jointing aluminum and aluminium alloys with steel. 3,341,680, 9–12–67, Cl. 219—73.

Roach, Alfred J.: *See*—
Wanaselja., Oley. 3,333,153.

Roach, Erskine E., to H. L. Brown. Gas lift valve. 3,306,313, 2–28–67, Cl. 137—102.

Roach, Erskine E., to Harold Brown Co. Paraffin control device. 3,329,211, 7–4–67, Cl. 166—170.

Roach, Francis S. Positive drive differential. 3,335,623, 8–15–67, Cl. 74—711.

Roach, Gay H. Bale conveyor with bale orientating means. 3,322,256, 5–30–67, Cl. 198—33.

Roach, Homer E. Antifreeze system for fluid lines. 3,346,191, 10–10–67, Cl. 239—135.

Roach, Thomas J., to International Rectifier Corp. Housing for a three terminal semiconductor device having two insulation tube sections. 3,299,327, 1–17–67, Cl. 317—234.

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Roach, Vincent M., to General Filter Co. Self-housed large capacity water filtration plant. 3,329,272, 7–4–67, Cl. 210—253.

Roach, William J.: *See*—
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Roach, Wilson R., to Sperry Rand Corp. Tube handling apparatus. 3,315,552, 4–25–67, Cl. 83—78.

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Roark, Howard. Wearing apparel. 3,311,924, 4–4–67, Cl. 2—87.

Robalex, Inc.: *See*—
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Robards, Preston O., to Equipment Research Corp. Power control receptacle having laterally extending contact pins for engaging contact assemblies of a jumper head. 3,358,265, 12–12–67, Cl. 339—195.

Robarge, Claude W., to Patrick Cudahy Inc. Process for preparing a dried meat product. 3,311,478, 3–28–67, Cl. 99—208.

Robarge, Robert E., to The Meadowbrook Co. Apparatus for injecting into water softening systems. 3,308,955, 3–14–67, Cl. 210—139.

Robarge, Thomas J. Electrical instruction kit and connector therefor. 3,324,572, 6–13–67, Cl. 35—19.

Robb, David: *See*—
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Robb, George D., to Federal Engineering Co. Mechanical drive element. 3,327,550, 6–27–67, Cl. 74—422.

Robb, Gordon M., and R. F. Code, to Union Carbide Canada Ltd. Method for producing zinc casings for batteries and the like. 3,331,122, 7–18–67, Cl. 29—528.

Robb, Harold E., Jr., to The Powers Regulator Co. Unbalanced ring demodulator circuit. 3,327,135, 6–20–67, Cl. 307—88.5.

Robb, Ronald A.: *See*—
Buckley, Gordon S., and Robb. 3,340,585.

Robb, Walter L., to General Electric Co. Thin, substantially defect-free organopolysiloxane films and preparation thereof. 3,325,330, 6–13–67, Cl. 156—229.

Robb, Walter L., to General Electric Co. Process for the separation or enrichment of gases. 3,350,844, 11-7-67, Cl. 55—16.

Robb, Walter L., to General Electric Co. Separation apparatus and method for its operation. 3,351,203, 11-7-67, Cl. 210—65.

Robb, Walter L., and D. L. Reinhard, to General Electric Co. Gas separation by differential permeation. 3,335,545, 8-15-67, Cl. 55—16.

Robbers, James A.: *See*—
Berkman, Jay F., Robbers, and Jones. 3,340,182.

Robbiano, Francesco. Projector for motor vehicles. 3,297,-863, 1-10-67, Cl. 240—11.4.

Robbin Laboratories, Inc.: *See*—
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Robbins, Alex. Electro-optical monitor systems. 3,329,946, 7-4-67, Cl. 340—258.

Robbins, Alex, to Standard Systems Communications Corp. Combination pillow speaker and control unit. 3,342,285, 9-19-67, Cl. 181—31.

Robbins Aviation, Inc.: *See*—
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Robbins, Beulah M. Open weave anti-slip glove. 3,341,861, 9-19-67, Cl. 2—163.

Robbins, Daniel H., and V. M. Corrado, to Eltra Corp. Justification information computer and tape perforator for photocomposing machines. Re. 26,144, 1-24-67, Cl. 234—7.

Robbins, Daniel T., to JFTJ Corporation. Easy-open envelope. 3,297,235, 1-10-67, Cl. 229—85.

Robbins, David. Beverage brewers, coffee percolators and the like. 3,353,475, 11-21-67, Cl. 99—312.

Robbins, Davis B. Material handling apparatus. 3,311,223, 3-28-67, Cl. 198—220.

Robbins, Floyd B., to General Electric Co. Data transmission system with control character insertions. 3,307,152, 2-28-67, Cl. 340—172.5.

Robbins, George E., to Nicholson Mfg. Co. Remotely controllable force mechanism for rotary-ring log barkers. 3,333,-615, 8-1-67, Cl. 144—208.

Robbins, George T., and R. L. Ware. Wooden pole having plastic pole top cover with preservative. 3,352,581, 11-14-67, Cl. 287—20.95.

Robbins, Harry, to Bell & Howell Co. Resistance oriented semiconductor strain gage with barrier isolated element. 3,337,780, 8-22-67, Cl. 317—234.

Robbins, Harry A. Display rack. 3,323,657, 6-6-67, Cl. 211—178.

Robbins, Hewitt: *See*—
Jensen, Axel G. 3,308,972.

Robbins, James S., and Associates, Inc.: *See*—
Sugden, David B. 3,318,099.
Winberg, Douglas F. 3,301,581.
Winberg, Douglas F. 3,309,142.
Winberg, Douglas F. 3,339,980.
Winberg, Douglas F., and Galgoczy. 3,295,892.

Robbins, Jim, Seat Belt Co.: *See*—
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Smith, Lawrence H., and Partridge. 3,345,712.

Robbins, John D., and J. E. Opfell, to Allied Chemical Corp. Yarn treatment. 3,295,182, 1-3-67, Cl. 28—72.

Robbins, Joseph: *See*—
Kenney, Ernest C., Moody, and Robbins. 3,317,024.

Robbins, Louis. Debris separator for aircraft gas turbine engines. 3,302,395, 2-7-67, Cl. 60—39.09.

Robbins, Louis. Debris separator for aircraft gas turbine engine. 3,302,396, 2-7-67, Cl. 60—39.09.

Robbins, Max L., and M. W. Hill, to Esso Research and Engineering Co. Preparation of colloidal carbonates in hydrocarbon media. 3,342,733, 9-19-67, Cl. 252—33.

Robbins, Max L., and J. H. Schulman, to Esso Research and Engineering Co. Microemulsions in liquid hydrocarbons. 3,346,494, 10-10-67, Cl. 252—33.2.

Robbins, Michael M.: *See*—
Brinkman, David C., and Robbins. 3,297,029.

Robbins & Myers, Inc.: *See*—
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Hagerman, Gilbert H. 3,308,695.
Hennessey, Timothy W. 3,303,365.
Powers, Estel E. 3,330,547.
Springer, William E., and Sherick. 3,308,610.

Robbins, Robert, and H. R. Baron, to Sanders Associates, Inc. Matched single pole single throw diode microwave switch. 3,296,457, 1-3-67, Cl. 307—885.

Robbins, Roland W., Jr.: *See*—
Hinton, Ray F., and Robbins. 3,343,511.

Robbins, Roland W., Jr., to United States of America, Navy. Fully sealed, pressure operated metering valve. 3,317,181, 5-2-67, Cl. 251—62.

Robbins, Saul. Figurine having improved inertia characteristics. 3,310,907, 3-28-67, Cl. 46—156.

Robel, Heinz, to Telefunken Patentverwertungsgesellschaft G.m.b.H. High-voltage coil for generating the high voltage in a television receiver. 3,345,595, 10-3-67, Cl. 336—69.

Roberge, Ralph N.: *See*—
Mahon, Joseph J., and Roberge. 3,308,315.

Roberson, Cletis L., N. J. Leedy, and J. D. Riley, to Owens-Corning Fiberglas Corp. Feeder for production of fibers of heat-softenable materials. 3,305,332, 2-21-67, Cl. 65—11.

Roberson, Jessie L.: *See*—
Boyd, Harvey W., Burleigh, and Roberson. 3,306,210.

Roberson, Kendall L. Garbage can lid lock. 3,336,065, 8-15-67, Cl. 292—30.

Roberson, Robert E. Power driven vertically adjustable tractor hitches. 3,345,083, 10-3-67, Cl. 280—490.

Robert, Jean: *See*—
Carre, Roland, and Robert. 3,349,395.

Robert, Roger A. Devices for the control of an aerial bomb operation. 3,299,810, 1-24-67, Cl. 102—4.

Robert, Roger A. Guide tube magazine for carrying and launching airplane rocket-bombs. 3,342,104, 9-19-67, Cl. 89—1.817.

Roberto, Francisco Q., to United States of America, Air Force. Synthesis of hydroxydifluoroamino alkanes. 3,329,-721, 7-4-67, Cl. 260—584.

Roberts, Albert, I. Hawkes, and F. T. Williams. Photoelastic stress indicating devices. 3,313,205, 4-11-67, Cl. 88—14.

Roberts, Alfred H. Cone loudspeakers. 3,350,513, 10-31-67, Cl. 179—115.5.

Roberts, Alfred M. Ciphering device. 3,319,000, 5-9-67, Cl. 178—22.

Roberts, Arthur H. Interchangeable luggage-chair structure. 3,309,134, 3-14-67, Cl. 297—17.

Roberts, Arthur L. Water massage unit and method of use. 3,326,210, 6-20-67, Cl. 128—66.

Roberts, Barry S., and F. D. Sheldon, to Lawrence Engineering Co. Ltd. Pallet transfer mechanisms. 3,338,430, 8-29-67, Cl. 214—6.

Roberts, Boake A., and Co. Ltd.: *See*—
Moorshead, Thomas C., and Hopf. 3,303,241.

Roberts, Carleton W., and J. C. Little, to The Dow Chemical Co. Halogenated ether alcohols. 3,359,327, 12-19-67, Cl. 260—611.

Roberts, Carleton W., and D. H. Haigh, to The Dow Chemical Co. Halophenoxy norbornenes. 3,359,328, 12-19-67, Cl. 260—612.

Roberts, Charles A. Cleated athletic shoe structure. 3,327,411, 6-27-67, Cl. 36—2.5.

Roberts, Charles C.: *See*—
Lytle, John P., Hannan, and Roberts. 3,343,535.

Roberts, Charles G. Shelter attachment for automobiles. 3,349,784, 10-31-67, Cl. 135—5.

Roberts, Charles L. Mouthpiece for double reed musical instruments. Re. 26,139, 1-10-67, Cl. 84—383.

Roberts, Charles T. Contoured body rest. 3,306,658, 2-28-67, Cl. 297—4.

Roberts, Charles W., Jr. and H. H. Roberts. Programmed message control system. 3,330,915, 7-11-67, Cl. 179—100.2.

Roberts, Clifford J., Jr.: *See*—
Farber, James F., Roberts, Donovan, and Wesson. 3,329,-969.

Roberts Co.: *See*—
Barefoot, Thomas L., and Martin. 3,321,902.
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Roberts Consolidated Industries, Inc.: *See*—
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Hill, Harvey J. 3,325,852.
Hill, Harvey J. 3,353,204.

Roberts Dairy Co.: *See*—
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Roberts, Darryl S.: *See*—
Mayer, Francis X., and Roberts. 3,320,050.

Roberts, David D. Apparatus for delivering power. 3,357,272, 12-12-67, Cl. 74—710.5.

Roberts, David H.: *See*—
Ratcliff, Nigel A., and Roberts. 3,301,672.

Roberts, David H., to St. Joseph Lead Co. Dispersion strengthening of lead. 3,315,342, 4-25-67, Cl. 29—420.5.

Roberts, Donald E. Vibratory finishing apparatus. 3,315,417, 4-25-67, Cl. 51—163.

Roberts, Donald E. Vibratory burnishing system with metered feed. 3,353,796, 11-21-67, Cl. 259—2.

Roberts, Donald L., to R. J. Reynolds Tobacco Co. Smoking product having flavored additive. 3,334,637, 8-8-67, Cl. 131—17.

Roberts, Douglas, to Witco Chemical Co. Ltd. Process for manufacturing impregnated cellular materials. 3,348,989, 10-24-67, Cl. 156—285.

Roberts, Edward M., G. P. Claxton, and F. G. Fallon, to Richardson-Merrell Inc. Heterocyclic derivatives of triphenylethylenes, triphenylethanes and triphenylethanols. 3,306,895, 2-28-67, Cl. 260—240.

Roberts, Edward M., G. P. Claxton, and F. G. Fallon, to Richardson-Merrell Inc. Heterocyclic derivatives of triphenylethylenes, triphenylethanes and triphenylethanols. 3,316,272, 4-25-67, Cl. 260—294.7.

Roberts, Edward S., to Treadwell Corp. Recovery of copper from low-grade copper sulfide ores. 3,303,021, 2-7-67, Cl. 75—105.

Roberts, Edward S., to The Treadwell Corp. Recovery of copper. 3,321,303, 5-23-67, Cl. 75—106.

Roberts, Emmett T., and R. C. Babb, to Mission Mfg. Co. Pump valve. 3,324,880, 6-13-67, Cl. 137—516.29.

Roberts, Francis P.: *See*—
Bray, Lane A., and Roberts. 3,351,424.

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Loukes, David G., and Robinson. 3,356,475.

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Robinson, Anderson E., and W. D. Willis, to Hercules Inc. Vulcanized epihalohydrin polymers. 3,341,491, 9-12-67, Cl. 260—45.75.

Robinson, Billie. Stepladder accessory. 3,318,416, 5-9-67, Cl. 182—214.

Robinson, Cecil A., and L. Younger, Jr. Earth working attachment tool and fastener structure therefor. 3,305,-955, 2-28-67, Cl. 37—145.

Robinson, Cecil H., to Schering Corp. 17α-halogenoethylestranes. 3,347,880, 10-17-67, Cl. 260—397.5.

Robinson, Cecil S., and W. J. Crake, to Robintech Inc. Lubricating and load-carrying pad for railway car center bearings and the like. 3,346,302, 10-10-67, Cl. 308—137.

Robinson, Charles C., to Ives (Engineers) Ltd. Hand brace for wheel nuts having an angularly adjustable U-crank arm. 3,348,436, 10-24-67, Cl. 81—177.9.

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Robinson, Charles F., and J. Reekie, to Bell & Howell Co. Color detection utilizing a chromatic absorption filter. 3,317,662, 5-2-67, Cl. 178—5.4.

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Robinson, Curtiss W., to The Boeing Co. Self-trimming ablative nozzle. 3,302,884, 2-7-67, Cl. 239—265.15.

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Robinson, Donald E. Heater construction. 3,353,528, 11-21-67, Cl. 126—91.

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Robinson, Elbert W., to The Congregation of the Sisters of Charity of the Incarnate Word, Inc. Infant resuscitator. 3,313,295, 4-11-67, Cl. 128—30.

Robinson, Elbert W., J. A. Miller, and L. H. Hudson. Pulmonary resuscitator with electrical control system. 3,333,-581, 8-1-67, Cl. 128—30.2

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Stedman, Brian D., Brown, and Robinson. 3,307,178.

Robinson, Ernest B.: *See*—
Glasby, Francis G., and Robinson. 3,330,186.

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Robinson, Fred M. Massaging machine having suction means and oppositely rotating rollers. 3,297,024, 1-10-67, Cl. 128—38.

Robinson, Gareth L., to Outboard Marine Corp. Saw chain. 3,329,183, 7-4-67, Cl. 143—135.

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Robinson, Glen: *See*—
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Robinson, Grover C., Jr., and B. Hondalus, to Reynolds Metals Co. Extruded composite conductor rails. 3,356,276, 12-5-67, Cl. 238—150.

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Robinson, Horace M., to Monsanto Co. Process for the preparation of dyeable acrylonitrile polymer fibers and compositions thereof. 3,300,272, 1-24-67, Cl. 8—100.

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Robinson, Norman E., to Brown & Sharpe Mfg. Co. High speed steel. 3,330,652, 7–11–67, Cl. 75—126.
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Robinson, Peter, to Raytheon Co. Diversity combiners. 3,305,781, 2–21–67, Cl. 325—305.
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Robinson, Roderick K., and A. B. Haese, to Consolidated Papers, Inc. Pour spout carton. 3,344,972, 10–3–67, Cl. 229—17.
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Robinson, Travillis B., to Voss Engineering Co. Apparatus for shearing, welding and planishing metal strips. 3,307,764, 3–7–67, Cl. 228—5.
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Robson, William W., Jr. Draft fan control circuit for underfeed stoker fired coal furnaces. 3,310,010, 3–21–67, Cl. 110—101.
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Rockefeller, George D., Jr., and J. C. Gambale, to Westinghouse Electric Corp. Load computing and shedding apparatus. 3,300,648, 1–24–67, Cl. 307—29.
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Rolfes, Hans, to Trans Continental Electronics Corp. Induction heating system for elongated pipes. 3,335,252. 8–8–67, Cl. 219—10.51.

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Rongey, Clarence H., and M. G. Zavertnik, to Killark Electric Mfg. Co. Plug and receptacle for use in hazardous locations. 3,360,763, 12–26–67, Cl. 339—14.

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Roosa, Vernon D. Fuel pump. 3,331,327, 7–18–67, Cl. 103—5.

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Roper, Daniel W., to Eaton Yale & Towne, Inc. Rotatable coupling device. 3,323,623, 6–6–67, Cl. 192—58.

Roper, Daniel W., to Eaton Yale & Towne Inc. Slip limiting differential. 3,324,744, 6–13–67, Cl. 74—711.

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Roplequet, Richard L., and W. C. Webber, to Alta Industries, Inc. Drawer guide. 3,351,406, 11–7–67, Cl. 312—332.

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Ropp, Richard C., and R. F. Quirk, to Sylvania Electric Products, Inc. Process for the fabrication of improved fluorescent lamps. 3,348,961, 10–24–67, Cl. 117—33.5.

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Rosenblad, Curt F. Falling film type heat exchanger. 3,351,119, 11–7–67, Cl. 159—13.
Rosenblads Patenter, Aktiebolaget: *See*—
Axelsson, Karl O. 3,325,970.
Rosenblatt, Carole L., ½ to H. Rosenblatt. Diapers having integral fasteners. 3,359,980, 12–26–67, Cl. 128—284.
Rosenblatt, David H., and G. H. Broome, to United States of America, Army. Process for making epoxides from ethylenic compounds with electron-withdrawing groups. 3,313,829, 4–11–67, Cl. 260—348.
Rosenblatt, Frank J. Resistance attachment for use with incandescent light bulbs. 3,325,762, 6–13–67, Cl. 338—219.
Rosenblatt, Frank J. Resistance attachment for incandescent light bulbs. 3,333,224, 7–25–67, Cl. 338—219.
Rosenblatt, Henry: *See*—
Rosenblatt, Carole L. 3,359,980.
Rosenblatt, Joel H. Method of making composite metal and concrete structures. 3,327,028, 6–28–67, Cl. 264—34.
Rosenblatt, Maurice C. Hung luminous ceiling with air conditioning ducts. 3,322,057, 5–30–67, Cl. 98—40.
Rosenblatt, William: *See*—
Osipow, Lloyd I., Brashear, and Rosenblatt. 3,305,488.
Osipow, Lloyd I., Brashear, and Rosenblatt. 3,344,195.
Rosenblum, Jack: *See*—
Cohen, Max, Elston, and Rosenblum. 3,298,591.
Rosenblum, Melvin: *See*—
Doppelt, Lawrence, Rosenblum, and Ungaro. 3,319,376.
Rosenblum, Robert. Travelling case. 3,306,405, 2–28–67, Cl. 190—51.
Rosenbluth, Harvey E.: *See*—
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Rosenbluth, William, to Hazeltine Research Inc. Linear sweep signal generator. 3,300,655, 1–24–67, Cl. 307—88.5.
Rosenbohm, Donald A.: *See*—
Williams, Henry P., Jr., Rosenbohm, and Page. 3,357,352.
Rosencrantz, Fredrick H. U. Process for the manufacture of pad body. 3,341,640, 9–12–67, Cl. 264—46.
Rosendahl, Gottfried R., to International Telephone and Telegraph Corp. Optical instrument with adjustable erecting mirror system. 3,298,770, 1–17–67, Cl. 350—36.
Rosendahl, Guenter K., to Illinois Tool Works Inc. Apparatus for gear burnishing. 3,321,820, 5–30–67, Cl. 29—90.
Rosener, Harvey J., to Bunker-Ramo Corp. Numerical positioning control system. 3,348,208, 10–17–67, Cl. 340—172.5.
Rösener, Wolfgang: *See*—
Meyer, Gerhard, Rösener, and Siggel. 3,356,665.
Rosenfeld, Aaron: *See*—
Kupferberg, Kenneth, and Rosenfeld. 3,324,378.
Rosenfeld, Aaron, to Forbro Design Inc. Hybrid regulated output voltage power supply. 3,336,523, 8–15–67, Cl. 323—22.
Rosenfeld, Frederick, S. Schoen, and M. Fainblatt, to Innovation Industries, Inc. Combined stowage unit and seat. 3,298,737, 1–17–67, Cl. 297—192.
Rosenfeld, Klaus W., to West Virginia Pulp and Paper Co. Method for the preparation of fibrous materials for the production of paper and cardboard. 3,327,952, 6–27–67, Cl. 241—15.
Rosenfeld, Myer, to United States of America, Army. Ethylenediamine-tetrahydrofuran paint-stripping compositions. 3,321,407, 5–23–67, Cl. 252—153.
Rosenfeld, Myer, to United States of America, Army. Ethylenediamine-anisole paint-stripping compositions. 3,322,677, 5–30–67, Cl. 252—153.
Rosenfeld, Myer, to United States of America, Army. Thixotropic ethylenediamine-based paint strippers. 3,324,037, 6–6–67, Cl. 252—120.
Rosenfeld, Myer, to United States of America, Army. Ethylenediamine-N, N-dimethylformamide paint-stripping compositions. 3,324,039, 6–6–67, Cl. 252—153.
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Rosenfield, Arthur M. Electric scoring machine. 3,319,359, 5–16–67, Cl. 35—48.
Rosenfield, Benjamin, to The Scholl Mfg. Co., Inc. Tubular bandage and material therefor. 3,306,288, 2–28–67, Cl. 128—157.

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Rosengarten, Walter E., Jr.: *See*—
Buczaa, George S., Rosengarten, and Copeland. 3,350,-050.

Rosenhatt, Lionel H. Twin compression chamber motor. 3,302,528, 2–7–67, Cl. 91—180.

Rosenheim, David J., to Ronson Corp. Adjustable curler. 3,326,222, 6–20–67, Cl. 132—40.

Rosenkrands, John W., to General Motors Corp. Roll resistant wheel suspension. 3,332,702, 7–25–67, Cl. 280—124.

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Rosenoff, Alan E., to Polaroid Corp. Arylselenazole chemical syntheses. 3,354,170, 11–21–67, Cl. 260—298.

Rosenstand, Gerd. Hearing aid, particularly spectacle type hearing aid. 3,359,377, 12–19–67, Cl. 179—107.

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Rosenstein, Hyman, and H. J. Prebluda, to Lancet Laboratories, Inc. Colorant tablet. 3,347,682, 10–17–67, Cl. 99—148.

Rosenstein, Nathan, to Spunize Co. of America, Inc. Method and apparatus for splicing yarn. 3,306,020, 2–28–67, Cl. 57—22.

Rosenstein, Nathan. Hosiery with surface indicator, and method of making same. 3,324,686, 6–13–67, Cl. 66—187.

Rosenstein, Nathan, to Spunize Co. of America, Inc. Distorted crimped yarn. 3,332,226, 7–25–67, Cl. 57—140.

Rosenstein, Nathan and A. J., to Spunize Co. of America, Inc. Method for crimping of natural and synthetic textile materials. 3,351,993, 11–14–67, Cl. 28—72.

Rosenthal, Adolph H., deceased (by L. S. Rosenthal, executrix), to Kollsman Instrument Corp. Optical interferometric navigational instrument. 3,332,314, 7–25–67, Cl. 88—14.

Rosenthal, David W., and J. Fried, to E. R. Squibb & Sons, Inc. A-nor-cholestatriene-21-oic acid 21→24 lactones. 3,336,-338, 8–15–67, Cl. 260—343.5.

Rosenthal, Erwin W.: *See*—
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Rosenthal, Harry. Web severing device having means to blow web material clear of severing means. 3,299,756, 1–24–67, Cl. 83—98.

Rosenthal, Jerome A., to United States of America, Atomic Energy Commission. Pulse modulator circuit. 3,315,181, 4–18–67, Cl. 332—9.

Rosenthal, John D.: *See*—
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Rosenthal, Joseph R., to North American Aviation, Inc. Flexible radiation attenuator. 3,349,397, 10–24–67, Cl. 343—18.

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Rosenthal, Louis A., to Union Carbide Corp. Motor armature. 3,327,143, 6–20–67, Cl. 310—44.

Rosenthal, Louis A., to Union Carbide Corp. Apparatus for the corona discharge treatment of plastic surfaces having an adjustable length electrode assembly. 3,348,041, 10–17–67, Cl. 250—49.5.

Rosenthal, Norman, and L. Citarel, to Thiokol Chemical Corp. Reaction products of alkylene imines and alkylene vicinal episulfides, and process therefor. 3,335,116, 8–8–67, Cl. 260—79.

Rosenthal, Rudolph: *See*—
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Rosenvold, Lloyd K. and R. J. Eye shield blank and method of assembling same. 3,300,786, 1–31–67, Cl. 2—2.

Rosenvold, Lloyd K. and R. J. Ophthalmic mounting hinge. 3,349,430, 10–31–67, Cl. 16—169.

Rosenvold, Robert J.: *See*—
Rosenvold, Lloyd K. and R. J. 3,300,786.
Rosenvold, Lloyd K. and R. J. 3,349,430.

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Cyba, Henryk A., and Rosenwald. 3,324,158.

Rosenzweig, Benjamin. Demountable paint brush. 3,340,557, 9–12–67, Cl. 15—176.

Rosenzweig, William. Loop bows and method. 3,307,864, 3–7–67, Cl. 289—1.2.

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Roser, George H. Pressurized washing and rinsing apparatus. 3,297,257, 1–10–67, Cl. 239—310.

Rosett, Edward S., to General Time Corp. Algebraic computational subtraction device. 3,302,010, 1–31–67, Cl. 235—177.

Rosett, Theodore, to Duke University. Comminuting apparatus. 3,298,411, 1–17–67, Cl. 146—68.

Rosewicz, Horst: *See*—
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Roshala, John L., to Physical Sciences Corp. Pressure transducer for use in extreme temperature and radioactive environments. 3,308,411, 3–7–67, Cl. 336—30.

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Rosi, David, and G. P. Peruzzotti, to Sterling Drug Inc. Fermentative oxidation of substituted thioxanthenes and xanthenes. 3,312,598, 4–4–67, Cl. 195—51.

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Rosin, Jacob, to Baldwin-Montrose Chemical Co., Inc. Production of trimethylamine-sulfur trioxide complex. 3,334,-139, 8–1–67, Cl. 260—583.

Rosin, Sebastian N., and D. Wormald, to Rosin Engineering Co. Ltd. Method and apparatus for forming liquid drops. 3,341,087, 9–12–67, Cl. 222—422.

Rosin, Seymour, and W. J. Smythe, to Technicon Corp. Colorimeter flow cell. 3,345,910, 10–10–67, Cl. 88—14.

Rosing, John, W. R. King, and O. C. Hewett, to Samsonite Corp. Luggage case. 3,313,382, 4–11–67, Cl. 190—49.

Rosink, Wilhelmus B.: *See*—
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Roskamp, Carleton H., D. R. Bates, R. D. Heckart, and L. F. Mayhue, to Phillips Petroleum Co. Reflux condensation by heat exchange with a composite stream. 3,304,727, 2–21–67, Cl. 62—28.

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Rosl, Wolfgang, to International Standard Electric, Corp. Detention mechanism for rotary switches, particularly stepping switches. 3,309,940, 3–21–67, Cl. 74—527.

Rosler, Geert, and U.-W. Rische, to North American Philips Co. Wave guide joint having non-conductive gap between sections. 3,315,186, 4–18–67, Cl. 333—95.

Rosman, Aristides, to Chevron Research Co. Method of rejuvenating an adsorbent. 3,325,971, 6–20–67, Cl. 55—62.

Rosman, Irwin E., to United States of America, Air Force. Apparatus with a thermally actuated seal. 3,296,943, 1–10–67, Cl. 92—111.

Rosner, Carl H.: *See*—
Swartz, Paul S., and Rosner. 3,351,437.

Rosner, Kurt: *See*—
Dobrowsky, Ferdinand, Rösner, Kühnelt, and Grobs. 3,323,905.

Ross, Adolph W.: *See*—
Ross, Ronald A., A. W., and M. E. 3,347,469.

Ross, Albert I. Apparatus for winding armature coils. 3,346,-021, 10–10–67, Cl. 140—92.2.

Ross, Alexander A.: *See*—
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Ross, Anthony J. Auger ice making machine. 3,320,769, 5–23–67, Cl. 62—354.

Ross, Anthony J. Float valve. 3,342,207, 9–19–67, Cl. 137—448.

Ross, Arnold, to Harsco Corp. Mobile concrete batching unit. 3,343,688, 9–26–67, Cl. 214—2.

Ross, Arnold R., C. Schroedl, and R. W. Strehlow, to Rex Chainbelt Inc. Mobile batching plant. 3,295,698, 1–3–67, Cl. 214—2.

Ross, Carl H., to The Crane & Breed Casket Co. Insert for casket top and methods of insertion. 3,316,608, 5–2–67, Cl. 27—19.

Ross, Carl H., to The Crane & Breed Casket Co. Head cap liner construction for burial caskets. 3,340,583, 9–12–67, Cl. 27—19.

Ross, Charles R. Ski construction. 3,318,609, 5–9–67, Cl. 280—11.13.

Ross, Charles W. Magnetic stacking device. 3,307,716, 3–7–67, Cl. 214—6.

Ross, Charles W. Magnetic supporting and carrying device. 3,319,989, 5–16–67, Cl. 294—65.5.

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Ross, Daniel L., to Polaroid Corp. Photographic products, compositions and processes utilizing 3-cyano-4-azo-5-pyrazolone dye developers. 3,309,199, 3–14–67, Cl. 96—29.

Ross, David, to Rexall Drug and Chemical Co. Neutralization process and apparatus. 3,345,304, 10–3–67, Cl. 252—193.

Ross, David S. *See*—
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Ross, Donald A., to International Wool Development Co. Textile crimping. 3,354,511, 11–28–67, Cl. 19—66.

Ross, Donald R. Container. 3,313,468, 4–11–67, Cl. 229—37.

Ross, Donald R., to U.S. Electric Mfg. Co. Trolley shoe dressing device. 3,321,587, 5–23–67, Cl. 191—35.

Ross, Edward C., to Radio Corp. of America. Character reader that quadrantizes characters. 3,348,200, 10–17–67, Cl. 340—146.3.

Ross, Edward E., and J. Cunningham, to California Packing Corp. Pre-orienter aligner. 3,326,351, 6–20–67, Cl. 198—45.

Ross, Eugene A., to Chicago Bridge & Iron Co. Apparatus for spraying materials in a drilling process. 3,323,166, 6–6–67, Cl. 18—2.7.

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Ross, Frank, and S. B. Richter, to Velsicol Chemical Corp. 2-(substituted phenylthio) - 4,6 - dialkoxy 1,3,5-triazines. 3,316,263, 4–25–67, Cl. 260—248.

Ross, Frank, and S. B. Richter, to Velsicol Chemical Corp. 2-phenylthio-4-alkoxy-6-halo-s-triazines. 3,316,264, 4–25–67, Cl. 260—248.

Ross, Frank E., to The Maytag Co. Automatic control device. 3,333,121, 7–25–67, Cl. 307—141.8.

Ross, Gene W., to Ritter Pfaudler Corp. Boiler feed water system with vacuum deaeration. 3,338,033, 8–29–67, Cl. 55—164.

Ross, Gene W., to Ritter Pfaudler Corp. Deaeration and pumping of high pressure condensate. 3,342,020, 9–19–67, Cl. 55—164.

Ross, Gene W., and D. S., to Amcodyne & Co. Vacuum distillation including pre-degasification of distilland. 3,300,-392, 1–24–67, Cl. 202—176.

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Ross, Hardy E., and W. H. Wharton, to The Dow Chemical Co. Composition comprising an ethylene copolymer and an N-substituted amide. 3,326,840, 6–20–67, Cl. 260—32.6.

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Ross, Ian M.: *See*—
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Ross, Irvine E., to General Electric Co. Dynamoelectric machine. 3,313,967, 4–11–67, Cl. 310—254.

Ross, Irvine E., to General Electric Co. Dynamoelectric machine with improved winding protection arrangement. 3,322,983, 5–30–67, Cl. 310—68.

Ross, James A., to Berkleonics, Inc. Shielded transformers. 3,312,919, 4–4–67, Cl. 336—84.

Ross, James F., T. C. Landrum, and L. D. Etherington, to Esso Research and Engineering Co. Polymerization diluent treatment. 3,324,090, 6–6–67, Cl. 260—80.5.

Ross, James H., to Beloit Corp. Steam digestion of impregnated chips. 3,308,011, 3–7–67, Cl. 162—68.

Ross, James W.: *See*—
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Eisenman, George, and Ross. 3,356,596.
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Riseman, John H., and Ross. 3,357,908.
Riseman, John H., Ross, and Eisenman. 3,357,909.

Ross, John D., L. E. Goodwin, and T. R. Herold, to United States of America, Atomic Energy Commission. Ultrasonic liquid level indicator. 3,326,042, 6–20–67, Cl. 73—290.

Ross, John F., to General Electric Co. Process for producing finely divided calcium fluoride having controlled particle size. 3,357,788, 12–12–67, Cl. 23—88.

Ross, John M., to E. I. du Pont de Nemours and Co. Preparation of 2,3-dihydroxy-6-quinoxaline carboxylic acid. 3,296,-267, 1–3–67, Cl. 260—250.

Ross, John W., to Union Carbide, Canada, Ltd. Method of continuous flat metal casting with the forward mold stroke and pinch roll speed synchronized with the speed of the forward speed of molten metal. 3,300,824, 1–31–67, Cl. 22—200.1.

Ross, John W., A. W. Marner, Jr., and B. C. Millar, to Union Carbide Canada Ltd. Welding torch oscillator unit. 3,306,116, 2–28–67, Cl. 74—55.

Ross, John W., D. R. Boynton, and C. S. Arnold, to Union Carbide Canada, Ltd. Machine for thermally working minerals. 3,313,359, 4–11–67, Cl. 175—11.

Ross, Joseph H.: *See*—
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Ross, Julian P., Jr.: *See*—
Smith, Benjamin T., Ross, and Trexler. 3,339,884.

Ross, Karl F. Wide-angle dioptric system. 3,302,543, 2–7–67, Cl. 95—16.

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Ross, Leroy W. Boat hull. 3,303,809, 2–14–67, Cl. 114—56.

Ross, Lyle A.: *See*—
Auer, John H., Jr., and Ross. 3,329,932.
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Ross, Martha L., to Atlantic Research Corp. Process of making propellant supports. 3,308,210, 3–7–67, Cl. 264—3.

Ross, Milton I.: *See*—
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Ross Operating Valve Co.: *See*—
Fall, Don R. 3,354,911.

Ross, Percy A.: *See*—
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Ross, Robert R., to H. A. Phillips & Co. Pressurized refrigeration circulating system. 3,315,484, 4–25–67, Cl. 62—174.

Ross, Robert S., to Goodyear Aerospace Corp. Angle of attack compensating bridle system for lighter-than-air balloon. 3,318,553, 5–9–67, Cl. 244—33.

Ross, Roger J., to The Singer Co. Attachment driving stud for a screwless needle clamp. 3,324,813, 6–13–67, Cl. 112—226.

Ross, Roger J., to The Singer Co. Screwless needle-clamps. 3,344,761, 10–3–67, Cl. 112—226.

Ross, Roger J., to The Singer Co. Sewing machine drive mechanism. 3,347,191, 10–17–67, Cl. 112—220.

Ross, Ronald A., A. W., and M. E., to Patent Holding and Development Corp. Gun for flocking trees. 3,347,469, 10–17–67, Cl. 239—424.

Ross, Rupert F.: *See*—
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Ross, Sydney, G. P. Canevari, and R. J. Flocco, to Esso Research and Engineering Co. Dewatering/upgrading athabaska tar sands froth by a two-step chemical treatment. 3,296,117, 1–3–67, Cl. 208—11.

Ross, Sidney D.: *See*—
Alwitt, Robert S., and Ross. 3,346,782.

Ross, Sidney D., to Sprague Electric Co. Capacitor having two electrolytes with different resistances. 3,307,085, 2–28–67, Cl. 317—230.

Ross, Sidney D., to Sprague Electric Co. Enclosed electrolytic capacitor with insulative impervious seal-layer on section-body. 3,321,676, 5–23–67, Cl. 317—230.

Ross, Sidney D., to Sprague Electric Co. Sealed capacitor with non-gas producing electrolyte. 3,325,697, 6–13–67, Cl. 317—230.

Ross, Sidney D., and R. E. Cote, to Sprague Electric Co. Capacitor with low resistivity electrolyte and high voltage range. 3,300,693, 1–24–67, Cl. 317—230.

Ross, Victor. Hydraulic weigher with stabilizing rods for use on truck. 3,306,384, 2–28–67, Cl. 177—141.

Ross, Wallace C. Aerodynamic sail construction. 3,356,059, 12–5–67, Cl. 114—103.

Ross, Walter E., Jr., and S. L. Kelly, to Athey Products Corp. Loader conveyor system. 3,315,795, 4–25–67, Cl. 198—233.

Ross, Wayne M., to Ross Laboratories, Inc. Recording indicators for pulse-echo type detection systems. 3,348,230, 10–17–67, Cl. 346—33.

Ross, Wayne M., and J. W. Dudley, to Ross Laboratories, Inc., Pulse-echo sounder system. 3,309,650, 3–14–67, Cl. 340—3.

Ross, William. Means of mounting glass or mirror to backing. 3,316,052, 4–25–67, Cl. 350—293.

Ross, William A., to Electrolux Corp. Centrifugal fan having substantially reduced internal air recirculation. 3,313,-476, 4–11–67, Cl. 230—130.

Ross, William A., to Sundstrand Corp. Hydrostatic transmission. 3,349,860, 10–31–67, Cl. 180—6.44.

Ross, William E.: *See*—
Wald, Milton M., and Ross. 3,344,200.

Ross, William R., Jr.: *See*—
Cherkas, Max A., and Ross. 3,341,414.

Rossbach, Paul F., to Eaton Yale & Towne Inc. Quenching die. 3,334,882, 8–8–67, Cl. 266—6.

Rosselet, Claude, to S. A. Corat, Compagnie de Recherches et d'Applications Techniques. Devices for firing objects of the class of projectiles, plugs, pins and nails. 3,302,319, 2–7–67, Cl. 42—1.

Rosselli, Andrew C., to C. A. V., Ltd. Liquid fuel injection pumps. 3,309,996, 3–21–67, Cl. 103—41.

Rossello, Dante: *See*—
Kruse, William E., and Rossello. 3,322,868.

Rossetti, Lino. Electric heating means to remove and prevent formation of frost and mist on vehicle windscreens. 3,356,-824, 12–5–67, Cl. 219—203.

Rossez, Jean, to Compagnie des Machines Bull (Societe Anonyme). Magnetic friction packings. 3,360,475, 12–26–67, Cl. 252—62.52.

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Schmidt, Paul, Eichenberger, Rossi, and Wilhelm. 3,332,-982.
Schmidt, Paul, Eichenberger, Wilhelm, and Rossi. 3,346,-568.
Schmidt, Paul, Rossi, Eichenberger, and Wilhelm. 3,318,-882.

Rossi, Alberto P. A., L. H. Werner, W. L. Bencze and G. de Stevens, to Ciba Corp. N-substituted benzo-azacycloalkenes. 3,332,951, 7–25–67, Cl. 260—286.

Rossi, Angelo F. Self-sharpening rotary mower blade. 3,315,452, 4–25–67, Cl. 56—295.

Rossi, Carl E.: *See*—
Campbell, William W., and Rossi. 3,311,994.
Campbell, William W., Rossi, and Good. 3,355,158.

Rossi, Carl E., to Harbison-Walker Refractories Co. Shaft kiln discharge mechanism. 3,352,550, 11–14–67, Cl. 263—29.

Rossi, Carlo, and H. Boehl, to Ciba Ltd. Light sensitive photographic material. 3,316,091, 4–25–67, Cl. 96—84.

Rossi, David A., to General Motors Corp. Remotely adjustable rear view mirror. 3,352,524, 11–14–67, Cl. 248—278.

Rossi, Emil R. Heatable shaving lather dispenser. 3,335,910, 8–15–67, Cl. 222—54.

Rossi, Emil R., and A. A. Rainero, Jr. Handle-anchored formed sugar block and method of producing same. 3,312,-555, 4–4–67, Cl. 99—138.

Rossi, Harry J., to Continental Can Co. Paperboard cover for can package. 3,305,085, 2–21–67, Cl. 206—65.

Rossi, Irving, to Concast, Inc. Continuous casting mold with armor strips. 3,349,836, 10–31–67, Cl. 164—273.

Rossi, Irving, to Concast, Inc. Cooling and apron arrangement for continuous casting molds. 3,358,744, 12–19–67, Cl. 164—282.

Rossi, Joseph A. Drier-toaster. 3,331,142, 7–18–67, Cl. 34—135.

Rossi, Pietro P.: *See*—
Muench, Werner, Silvestri, and Rossi. 3,356,675.

Rossi, Ronald C., and R. M. Fulrath, to United States of America, Atomic Energy Commission. Densification of refractory compounds. 3,343,915, 9–26–67, Cl. 23—141.

Rossing, Alexander V., to Deutsche Edelstahlwerke Aktiengesellschaft. Apparatus for continuously horizontally casting high melting metals particularly steel. 3,344,846, 10–3–67, Cl. 164—281.

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Rossnan, Michael. Fishing devices. Re. 26,198, 4–25–67, Cl. 43—36.

Rossnan, Michael. Apparatus for jacking motor vehicles. 3,348,807, 10–24–67, Cl. 254—94.

Rossnan, Michael. Apparatus for shaping and cooking food. 3,358,588, 12–19–67, Cl. 99—426.

Rossnan, Michael. Method of making a fishing device. 3,359,625, 12–26–67, Cl. 29—436.

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Rosso, Giuseppe, and M. Portasoni, to G. Rosso and Calzificio Fratelli Protasoni Societa di Fatto di Mario e Trento Protasoni. Method of and apparatus for knitting and linking articles of wear. 3,340,834, 9–12–67, Cl. 112—25.

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Roth, Charles F., Jr., to Xerox Corp. Xerographic developer seal and process. 3,332,328, 7–25–67, Cl. 95—1.7.

Roth, Claris D., to A. E. Staley Mfg. Co. Continuous process for preparing polyol glycosides. 3,346,558, 10–10–67, Cl. 260—210.

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Roth, Gerald C., to Union Special Machine Co. Looper mechanism for blind stitch sewing machines. 3,347,190, 10–17–67, Cl. 112—176.

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Rover, Ralph R., Jr., to Sperry Rand Corp. Runway image generating apparatus. 3,345,632, 10–3–67, Cl. 343—108.

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Rowe, Robert G. Resonance vibration testing apparatus. 3,355,933, 12–5–67, Cl. 73—67.2.

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Rubin, Julius, to Thermice Corp. Method and apparatus for chilling articles, especially food items. 3,304,732, 2–21–67, Cl. 62—63.

Rubin, Julius. Sewing machine having thread trimming device mounted thereon. 3,304,897, 2–21–67, Cl. 112—252.

Rubin, Martin. Recovery of hecogenin acetate. 3,303,186, 2–7–67 Cl. 260—239.55.

Rubin, Martin. Recovery of tigogenin acetate and 5α-16-pregnene-3-ol-20-one from natural plant sources. 3,303,187, 2–7–67, Cl. 260—239.55.

Rubin, Milton D.; 30% to D. Wolf. Method of making electrical components. 3,303,078, 2–7–67, Cl. 156—150.

Rubin, Morris M. Door knob cover. 3,343,578, 9–26–67. Cl. 150—52.

Rubin, Morton S. Electrical connection element for wiring conduit. 3,306,638, 2–28–67, Cl. 285—158.

Rubin, Robert. Dental device for use in the making of a crown or inlay. 3,318,001, 5–9–67, Cl. 32—40.

Rubin, Robert A., to TRW, Inc. Redundant power control regulator. 3,353,092, 11–14–67, Cl. 323—19.

Rubin, Ronald W., and T. Torok, to The Valtronic Corp. Storage unit. 3,332,730, 7–25–67, Cl. 312—330.

Rubinfeld, Joseph, to Colgate-Palmolive Co. Detergent composition. 3,320,174, 5–16–67, Cl. 252—138.

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Rubinstein, David, and J. Healy, to W. R. Grace & Co. Aqueous polymers latex with silver and sodium hypochlorite, hydrogen peroxide, or formaldehyde germicides. 3,350,265, 10–31–67, Cl. 167—38.6.

Rubinstein, Sidney P., and H. Star, to Cutler-Hammer, Inc. Increment size adjustment means. 3,324,751, 6–13–67, Cl. 83—73.

Rubinstein, Sidney P., and H. Star, to Cutler-Hammer, Inc. Automatic size pre-set and automatic length adjustment system for cut-off machines and the like. 3,355,973, 12–5–67, Cl. 83—76.

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Rubisch, Ottmar: *See*—
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Rubissow, George A. Vertical file. 3,349,775, 10–31–67, Cl. 129—8.

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Ruble, Theodore A., to Continental Carbon Co. Process and apparatus for making carbon black. 3,307,923, 3–7–67, Cl. 23—314.

Ruble, Theodore A., to Continental Carbon Co. Plastic lined carbon black agglomerator. 3,326,642, 6–20–67, Cl. 23—314.

Ruble, Theodore A., to Continental Carbon Co. Method and apparatus for calcining inorganic hydrates. 3,329,417, 7–4–67, Cl. 263—21.

Ruble, Theodore A., to Continental Carbon Co. Method and apparatus for manufacturing carbon black. 3,342,556, 9–19–67, Cl. 23—209.4.

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Sutherland, James F., and Rubner. 3,309,535.

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Ruchlis, Hyman, to Harcourt, Brace & World, Inc. Educational pendulum device. 3,339,292, 9–5–67, Cl. 35—19.

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Ruchser, Erich, to E. Herion. Master valves for controlling an actuator particularly for operating the clutch or brake of a press. 3,329,161, 7–4–67, Cl. 137—596.16.

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Wiley, Nathaniel C., Jr., and Rudkin. 3,338,126.

Rudner, Bernard, and R. A. Bafford, to Koppers Co., Inc. Asymmetric synthesis of alcohols. 3,308,172, 3–7–67, Cl. 260—638.

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Rudolph, Hans, K.-H. Rullmann, H. Schnell, K. Prater, and K. Raichle, to Farbenfabriken Bayer Aktiengesellschaft. Process for the stepwise production of moulded articles from moulding masses based on unsaturated polyesters and copolymerisable monomeric compounds. 3,313,864, 4–11–67, Cl. 260—864.

Rudolph, Hans, and K. Raichle, to Farbenfabriken Bayer Aktiengesellschaft. Storage secondary aromatic amines as stabilizers for unsaturated polyesters containing hydroperoxides. 3,355,515, 11–28–67, Cl. 260—864.

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Rudolph, Rome R., C. Strutz, Jr., and F. C. Strutz, to Carl Strutz & Co., Inc. Workpiece supporting and registering apparatus for bottle decorating apparatus. 3,311,051, 3–28–67, Cl. 101—40.

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Ruehrwein, Robert A., to Monsanto Co. Production of epitaxial films. 3,312,571, 4–4–67, Cl. 148—175.

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Rumsey, Rollin D., to Houdaille Industries, Inc. Hydraulic buffer. 3,341,189, 9–12–67, Cl. 267—1.

Rumsey, Rollin D., to Houdaille Industries, Inc. Hatch cover with piston-lever rotary actuators. 3,351,121, 11–7–67, Cl. 160—188.

Rumsey, Rollin D., and G. W. Kamman, to Houdaille Industries, Inc. Combination check valve and seal. 3,340,966, 9–12–67, Cl. 188—97.

Runde, Byron A.: *See*—
Gonzalez, Frank H., and Runde. 3,314,516.

Rundel, Guy L.: *See*—
Tilden, Carleton D., and Rundel. 3,332,524.

Rundell, Gene R., to Crucible Steel Co. of America. Austenitic stainless steel. 3,306,736, 2–28–67, Cl. 75—128.

Rundell, Herbert A., to Texaco Inc. Sensitive torque meter. 3,295,367, 1–3–67, Cl. 73—136.

Rundles, Don H., to United States of America, Army. Battery heat control by-pass valve. 3,309,234, 3–14–67, Cl. 136—161.

Rungaldier, Karl, and E. Braun, to Patentauswertung Vogelbusch Gesellschaft m.b.H. Arrangement for destroying foam in fermentors. 3,354,050, 11–21–67, Cl. 195—134.

Runge, Heinz F., to Oscar Mayer & Co., Inc. Packaging machine. 3,324,621, 6–13–67, Cl. 53—138.

Runge, Heinz F., to The Kartridg Pak Co. Film laminator for packaging machine. 3,325,965, 6–20–67, Cl. 53—180.

Runge, John N. Semi-automatic flocking machine. 3,330,250, 7–11–67, Cl. 118—2.

Runge, Thomas M. Aircraft proximity warning system. 3,345,633, 10–3–67, Cl. 343—112.

Runkle, Dean E., to The Bendix Corp. Universal joint. 3,296,830, 1–10–67, Cl. 64—17.

Runkle, Dean E., to The Bendix Corp. No-lash axially movable steering column. 3,318,170, 5–9–67, Cl. 74—493.

Runnells, David L., Jr.: *See*—
Harrington, John A., Broersma, and Runnells. 3,296,216.

Runnells, David R., Jr., to Armour and Co. Skinning apparatus. 3,298,414, 1–17–67, Cl. 146—130.

Runnels, Joe N., Jr.: *See*—
Eberhardt, Donald S., Gratzer, and Runnels. 3,347,495.

Runnels, John H: *See*—
Ellingboe, John L., Jr., and Runnels. 3,318,447.

Runnels, Russell W., to United States of America, Air Force. Piezoelectric frequency modulated optical maser. 3,330,957, 7–11–67, Cl. 250—199.

Runner, John W.: *See*—
Cook, Albert W., and Runner. 3,354,992.

Runnion, Ernest E.: *See*—
Mitten, Leonard A. 3,313,329.
Mitten, Leonard A. 3,344,826.

Runyan, Martin E.: *See*—
Funke, Charles B., Kleboe, and Runyan. 3,300,035.
Kleboe, John E., and Runyan. 3,300,034.

Runyan, Raymond A.: *See*—
Zeller, David A., Jr., and Runyan. 3,339,192.

Runyan, Wesley G., to Collins Radio Co. Alternator regulator. 3,323,036, 5–30–67, Cl. 322—28.

Ruoho, Armas A., to Phillips Petroleum Co. Oil impregnation of carbon black. 3,338,729, 8–29–67, Cl. 106—122.

Rupe, Chauncey O., to Miles Laboratories, Inc. Composition and device for testing for chloride, bromide, iodide, cyanide, and thiocyanate. 3,329,486, 7–4–67, Cl. 23—253.

Rupert, John P., to Rembrandt Tobacco Mfg. Corp. of South Africa Ltd. Apparatus for slitting the wrapper of rod-shaped articles and separating the wrapper therefrom. 3,339,559, 9–5–67, Cl. 131—96.

Rupert, John P., to Tobacco Research & Development Institute (Propriet) Ltd. Storage bins. 3,355,004, 11–28–67, Cl. 198—44.

Rupert, Robert, and N. C. Anderson, to Infrared Industries, Inc. Infrared detector mounted on thermoelectric cooling means and within a container of inert gas. 3,356,846, 12–5–67, Cl. 250—83.

Rupert, Samuel J., to Hoover Ball and Bearing Co. Apparatus for automatically trim finishing blow molded plastic articles. 3,351,981, 11–14–67, Cl. 18—5.

Rupp, Hermann. Motor-generator using a resonance circuit. 3,313,993, 4–11–67, Cl. 318—254.

Rupp, James W., to The Bendix Corp. Electrically actuated release mechanism. 3,358,254, 12–12–67, Cl. 335—253.

Rupp, Karl: *See*—
Laä, Friedrich, and Rupp. 3,355,557.

Rupp, Karl, to North American Philips Co., Inc. Transistorized amplifying device fed on alternating current. 3,308,246, 3–7–67, Cl. 179—100.1.

Rupp, Richard O., to The Cromwell Paper Co. Apparatus and method for depositing reinforcement material on a continuously moving web. 3,321,348, 5–23–67, Cl. 156—177.

Rupp, Warren E., and F. T. Sakradia, to The Gorman-Rupp Co. Material handling apparatus and methods. 3,304,126, 2–14–67, Cl. 302—21.

Rupp, Werner M., to United States of America, Army. Odd-order, parametric, frequency multiplier. 3,311,811, 3–28–67, Cl. 321—69.

Ruppe, Peter P. Apparatus for surface finishing articles. 3,328,922, 7–4–67, Cl. 51—163.

Ruppel, Donald B.: *See*—
Seigfried, Anton G., Ruppel, and Reinhart. 3,320,638.

Ruppel, Wilhelm: *See*—
Braun, Willy, Ruppel, and Mecke. 3,297,702.

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Schellhase, Rolf, and Ruppersberg. 3,348,059.

Ruppert, Karl: *See*—
Liebel, Julius, Fleischmann, and Ruppert. 3,335,736.

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Pilkuhn, Manfred H., and Rupprecht. 3,349,476.

Rupprecht, Joachim, to Siemens-Schuckertwerke Aktiengesellschaft. Halogen doped Bi_2Te_3-Bi_2Se_3-As_2Se_3 Thermo-electric composition. 3,310,493, 3–21–67, Cl. 252—62.3.

Rupprecht, Walter E. F.: *See*—
Ploeger, Richard A., and Rupprecht. 3,317,473.

Rurik, Josef, and H. Weinrich, to Guteholfnungshutte Sterkrade Aktiengesellschaft. Axial- and radial-flow, multistage centrifugal compressor. 3,303,989, 2–14–67, Cl. 230—45.

Rusanowsky, Nicholas P., and R. W. Curtis, to The Babcock & Wilcox Co. Steam generators. 3,332,402, 7–25–67, Cl. 122—235.

Rusch, Adolphe, Jr., to United States of America, Army. Method of making magnetic tapes. 3,320,083, 5–16–67, Cl. 117—4.

Rüsch, Heinz: *See*—
Rüsch, Werner and H. 3,322,126.

Rusch, Joseph J., to Minnesota Mining and Mfg. Co. Decorative adhesive sheet material with a chlorinated vinyl polymer polyester resin blend primer. 3,312,563, 4–4–67, Cl. 117—33.3.

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Freund, Heinz, Arndt, and Rusch. 3,332,768.
Freund, Heinz, Arndt, and Rusch. 3,352,663.

Rüsch, Werner and H., to Firma Willy Rusch. Endotracheal catheter. 3,322,126, 5–30–67, Cl. 128—351.

Rusch, William T., T. E. Woodruff, and E. Kittredge, to Sanders Associates, Inc. Low dissipation inductance drivers. 3,337,748, 8–22–67, Cl. 307—88.5.

Rusch, Willy, to Willy Rusch, KG. Device for mouth to mouth respiration. 3,297,027, 1–10–67, Cl. 128—29.

Rusch, Willy, KG: *See*—
Rusch, Werner and H. 3,322,126.
Rusch, Willy. 3,297,027.

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Ruschig, Heinrich, and H. Hilmer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 2-aminoalkyl-3-hydrocarbon quinazolones-(4). 3,322,756, 5-30-67, Cl. 260—247.2.

Ruschig, Heinrich, G. Korger, W. Aumüller, and W. Schmidt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Hydroxy-benzenesulfonyl-ureas and process for their manufacture. 3,347,914, 10-17-67, Cl. 260—553.

Ruschmann, Fred, to Kollsman Instrument Corp. Precision linear actuator. 3,323,382, 6-6-67, Cl. 74—127.

Ruscitti, Tommaso. Head for clawing the valve on an aerosol bomb and for the simultaneous filling thereof with a metered

Rush, Bill H.: *See*—
Rush, Robert J. and B. H., and Hahn. 3,329,263.

Rush, Charles D. Tape guidance system. 3,347,437, 10-17-67, Cl. 226—198.

Rush, David H., to ACR Electronics Corp. Package and the method for making same. 3,323,643, 6-6-67, Cl. 206—65.

Rush, Elton E., to Phillips Petroleum Co. Filter bag and method of making same. 3,348,367, 10-24-67, Cl. 55—381.

Rush, Joseph A., to Keltec Industries, Inc. Radar system for the detection of moving objects. 3,360,796, 12-26-67, Cl. 343—7.7.

Rush, Robert C. Antenna support. 3,327,437, 6-27-67, Cl. 52—122.

Rush, Robert J. and B. H., and W. J. Hahn. Root crop handling devices. 3,329,263, 7-4-67, Cl. 209—101.

Rush, Stanley H.: *See*—
Stefano, Nicholas M., Rush, and Green. 3,319,520.

Rush, Stanley H., and S. L. Green, to TRW Inc. Separation device. 3,336 868, 8-22-67, Cl. 102—24.

Rushing, Raymond G., to General Electric Co. Methods for changing relative positions of movable conductors for use in electrical inductive devices. 3,333,328, 8-1-67, Cl. 29—596.

Rusinyak, Gregory J., to United-Carr Inc. Electrical connector component with grounding crown contact. 3,332,052, 7-18-67, Cl. 339—177.

Rushmer, Donald M.: *See*—
Bingham, Kenneth C. A., Mossman, Rushmer, and Williams. 3,325,792.

Rushmere, John D., to E. I. du Pont de Nemours and Co. Zinc cyanide electroplating bath and process. 3,296,105, 1-3-67, Cl. 204—55.

Rushton, John D., and R. A. Williams, to Imperial Chemical Industries Ltd. Manufacture of adiponitrile. 3,325,532, 6-13-67, Cl. 260—465.2.

Rushworth, Norman: *See*—
Mann, Matthew K., and Rushworth. 3,344,482.

Rusick, Jack H., to General Signal Corp. System and method of code communication. 3,305,634, 2-21-67, Cl. 178—66.

Rusk, Gerald R. Wrench having a plurality of work engaging means. 3,354,756, 11-28-67, Cl. 81—90.

Rusk, Stanley J., to United States of America, Navy. Vector resolver. 3,341,155, 9-12-67, Cl. 244—77.

Ruske, Manfred: *See*—
Braun, Willy, and Ruske. 3,313,830.
Braun, Willy, and Ruske. 3,324,174.
Braun, Willy, and Ruske. 3,342,831.

Rusker Co., The: *See*—
Wahlgren, Wallace W. 3,337,818.

Ruskin, Dan B.: *See*—
Ruskin, Simon L., Farhi, Ruskin, and Reder. 3,329,567.

Ruskin Development & Mfg. Corp.: *See*—
Ruskin, Henry. 3,318,598.

Ruskin, Frances R., and J. Q. Adams. Radiation-proof structure. 3,334,597, 8-8-67, Cl. 109—1.

Ruskin, Henry, to Ruskin Development & Mfg. Corp. Bowling ball having means for indicating a correct hooked delivery. 3,318,598, 5-9-67, Cl. 273—63.

Ruskin, Henry, to Swingline, Inc. Tamper-proof security clip. 3,331,106, 7-18-67, Cl. 24—123.

Ruskin, Henry, to Swingline, Inc. Tool for applying fastening devices. 3,331,233, 7-18-67, Cl. 72—410.

Ruskin, Henry, and E. S. Viola, to Swingline Inc. Method of securing components of a cap member to one another. 3,301,731, 1-31-67, Cl. 156—293.

Ruskin Mfg. Co.: *See*—
Reichow, William A. 3,346,013.

Ruskin, Simon L., deceased (by C. Farhi, D. B. Ruskin, and M. Reder, executors), to Union Carbide Corp. Synergistic effect of adenylic nucleotides in digitalis therapy. 3,329,567, 7-4-67, Cl. 167—65.

Rusler, George W., Jr., to Honeywell Inc. Apparatus for computing true vertical position, velocity and acceleration for aircraft. 3,296,422, 1-3-67, Cl. 235—150.25.

Rusling, Robert B. Road or highway markers. 3,355,999, 12-5-67, Cl. 94—1.5.

Rusnack, Michael E., and J. M. Kulesa, American Maize-Products Co. Weight control for bag packing machines. 3,311,-182, 3-28-67, Cl. 177—45.

Rusnak, Maurice, W. Miller and Peter, to said Rusnak, assor. to P. Miller and W. Miller. Condition-responsive system for inpressing distinctive frequency alarm tone on transmission line. 3,357,009, 12-5-67, Cl. 340—216.

Rusnak, Thomas L. Head rest. 3,296,634, 1-10-67, Cl. 5—338.

Rusoff, Samuel, to Basic Inc. Method of manufacturing basic refractories. 3,310,618, 3-21-67, Cl. 264—63.

Russ, Clem. Implanted electrode for measuring oxygen pressure in an organ. 3,336,919, 8-22-67, Cl. 128—2.1.

Russ, Edward F.: *See*—
Miller, Kenneth H., and Russ. 3,332,252.

Russ, William H., and H. E. Evans, to N. V. Appleton (U.K.) Ltd. Windows. 3,357,135, 12-12-67, Cl. 49—390.

Russak, Joseph. Automatic separator. 3,298,077, 1-17-67, Cl. 28—17.

Russel, Chester Z.: *See*—
Wyble, Charles W., Russel, and Ernst. 3,335,419.

Russell, Albert H.: *See*—
Gratton, Charles P., and Russell. 3,341,426.

Russell, Burdsall & Ward Bolt and Nut Co.: *See*—
Tabor, Joseph A. 3,356,121.

Russell, Carl D., to International Harvester Co. Earth working implement. 3,307,508, 3-7-67, Cl. 111—86.

Russell, Carl D. Mechanical injection and absorption heat-operated refrigeration apparatus and method. 3,330,126, 7-11-67, Cl. 62—101.

Russell, Carl D. End-of-page limiting device. 3,349,890, 10-31-67, Cl. 197—189.

Russell, David L., to The Dow Chemical Co. Method and apparatus for the treatment of expandable resinous particles. 3,347,961, 10-17-67, Cl. 264—53.

Russell, Dean E., to FMC Corp. Cutter rolls for corn harvesters. 3,304,702, 2-21-67, Cl. 56—104.

Russell, Donald H.: *See*—
Nagin, Harry S., and Russell. 3,334,555.
Nagin, L. and H. S., Russell, and Wojcik. 3,341,128.

Russell, Donald H., to The Atlantic Refining Co. Wax extended urethane polymers. 3,305,503, 2-21-67, Cl. 260—28.5.

Russell, Donald H., and B. C. Wilbur, Jr., to Atlantic Richfield Co. Method for the production of alkylated styrene polymers. 3,336,409, 8-15-67, Cl. 260—669.

Russell, Duane J.: *See*—
Sykes, Langthorne, Russell, and Hansen. 3,327,227.

Russell, Edward J.: *See*—
Ruhf, Robert J., Russell, and Egge. 3,345,313.

Russell, Edwin R.: *See*—
Prout, William E., Russell, and Groh. 3,296,123.

Russell, Edwin R., W. E. Prout, H. J. Groh, and G. W. Watt, to United States of America, Atomic Energy Commission. Thorium oxide or thorium-uranium oxide with magnesium oxide. 3,309,323, 3-14-67, Cl. 252—301.1.

Russell, Eugene R.: *See*—
Rufkin, Dale E., and Russell. 3,334,576.

Russell, Frank H., to Bolton-Emerson, Inc. Bound, adhesively united shell filling. 3,327,956, 6-27-67, Cl. 241—299.

Russell, Frank S.: *See*—
Halvorsen, Elmer W., and Russell. 3,351,101.

Russell, Fred J. Strike with relieved tab. 3,316,007, 4-25-67, Cl. 292—341.12.

Russell, Fred J. Trailer lock. 3,337,249, 8-22-67, Cl. 292—140.

Russell, Fred J., and R. J. Nolin, said Nolin assignor to said Russell. Method for preparing a door face to retain a unit lock in position. 3,298,094, 1-17-67, Cl. 29—428.

Russell, Fred J., and P. Cirocco, said Cirocco assignor to said Russell. Sleeve for key-actuated mechanism. 3,298,-211, 1-17-67, Cl. 70—369.

Russell, Fred J., and R. J. Nolin, said Nolin assignor to said Russell. Mortise lock low friction case liner. 3,298,-729, 1-17-67, Cl. 292—337.

Russell, Fred J., and R. J. Nolin; said Nolin assor. to said Russell. Unit lock installation jig. 3,302,674, 2-7-67, Cl. 145—129.

Russell, Fred J., and G. B. Solovieff, said Solovieff assor., to said Russell. Rotatable cap with shoulder to retain removable core. 3,308,641, 3-14-67, Cl. 70—224.

Russell, Fred J., R. L. Armstrong, and H. W. Falk, said Armstrong and Falk assors., to said Russell. Threaded member anti-loosening device. 3,308,866, 3-14-67, Cl. 151—25.

Russell, Fred J., and R. J. Nolin, said Nolin assor. to said Russell. Unit lock deadlocking blocker lifter. 3,316,001, 4-25-67, Cl. 292—153.

Russell, Fred J., and R. J. Nolin; said Nolin assor. to said Russell. Pivoting reversible latch bolt. 3,316,003, 4-25-67, Cl. 292—244.

Russell, Fred J., and R. J. Nolin; said Nolin assor. to said Russell. Mortise lock hub cover. 3,316,006, 4-25-67, Cl. 292—337.

Russell, Fred J., R. L. Armstrong, and F. L. Jennie; said Armstrong and Jennie assors. to said Russell. Bush button actuated lock. 3,321,942, 5-30-67, Cl. 70—146.

Russell, Fred J., R. L. Armstrong, and H. W. Falk; said Armstrong and Falk assors. to said Russell. Adjustable roller latch. 3,322,450, 5-30-67, Cl. 292—75.

Russell, Fred J., and J. R. Andrew, to Columbus Auto Parts Co. Setting gauge for testing machine. 3,323,217, 6-6-67, Cl. 33—147.

Russell, Fred J., and G. B. Solovieff, said Solovieff assignor to said Russell. Combination lock. 3,330,140, 7-11-67, Cl. 70—156.

Russell, Fred J., R. L. Armstrong, and F. L. Jennie, said Jennie and Armstrong assignors to said Russell. Self-adjusting key-actuated mechanism for mailbox doors. 3,336,-769, 8-22-67, Cl. 70—134.

Russell, Fred J., and R. J. Nolin. Door lock visual indicator pin. 3,336,775, 8-15-67, Cl. 70—438.

Russell, Fred J., and R. J. Nolin; said Nolin assor., to said Russell. Mortise lock knob locking means. 3,337,248, 8-22-67, Cl. 292—5.

Russell, Fred J., and R. J. Nolin; said Nolin assor., to said Russell. Deadlocking mechanism blocker. 3,337,250, 8-22-67, Cl. 292—210.

Russell, Fred J., and R. J. Nolin; said Nolin assor., to said Russell. Mortise lock deadlocking latch and deadbolt block. 3,337,251, 8-22-67, Cl. 292—222.

Russell, Fred J., and R. J. Nolin; said Nolin assor., to said Russell. Locking-unlocking controls in latch face. 3,337,-252, 8-22-67, Cl. 292—224.

Russell, Fred J., R. L. Armstrong, and V. W. Sanders. Handhold retainer block. 3,337,254, 8-22-67, Cl. 292—352.

Russell, Fred J., R. L. Armstrong, and H. W. Falk, said Armstrong and Falk assor to said Russel. Double sliding door lock. 3,345,838, 10-10-67, Cl. 70—100.

Russell, Fred J., and G. B. Solovieff, said Solovieff assor. to said Russell. Dial and key operated padlock. 3,349,584, 10-31-67, Cl. 70—21.

Russell, Fred J., and G. B. Solovieff, said Solovieff assor. to said Russell. Combination lock mechanism. 3,349,586, 10-31-67, Cl. 70—316.

Russell, Frederick B.: *See*—
Kantrowitz, Arthur R., and Russell. 3,350,721.

Russell, Frederick S., to United States Envelope Co. Bag supply pad. 3,317,037, 5-2-67, Cl. 206—57.

Russell, Gaylord C.: *See*—
Fish, Lawrence W., Jr., and Russell. 3,296,378.

Russell, Glen A. Condensation reactions in dimethyl sulfoxide solution and sulfoxides. 3,326,979, 6-20-67, Cl. 260—607.

Russell, Glen A., and H.-D. Becker. Preparation and rearrangement of beta-ketosulfoxides. 3,345,416, 10-3-67, Cl. 260—590.

Russell, Gordon C., to Lockheed Aircraft Corp. Wall panel joint cap construction. 3,330,084, 7-11-67, Cl. 52—300.

Russell, Gordon C., to Lockheed Aircraft Corp. Formation rail and securing means therefor. 3,334,455, 8-8-67, Cl. 52—122.

Russell, Gordon C., to Lockheed Aircraft Corp. Abutting wall panels and sealing structure therefor. 3,350,828, 11-7-67, Cl. 52—395.

Russell, Gordon C. to Lockheed Aircraft Corp. Panel joint. 3,359,022, 12-19-67, Cl. 287—189.36.

Russell, Grover M., to Penn Controls, Inc. Fool-proof snap action reset switch. 3,345,476, 10-3-67, Cl. 200—72.

Russell, Henry B., and Sons, Inc.: *See*—
Russell, Joseph F. 3,313,569.

Russell Hosiery Mills, Inc.: *See*—
Boylen, Clarence B. 3,296,838.

Russell, Howard, Jr., to General Precision Inc. Gimbal-type joystick. 3,299,731, 1-24-67, Cl. 74—471.

Russell, Howard G.: *See*—
Erickson, Henry, and Russell. 3,295,897.

Russell, Jack E., to Carrier Corp. Absorption refrigeration systems. 3,358,465, 12-19-67, Cl. 62—101.

Russell, Jacob B. Constant pressure refrigeration cycle. 3,309,897, 3-21-67, Cl. 62—512.

Russell, James, W. E. Carlson, and C. H. Mayhood, Jr., to St. Regis Paper, Co. Process of reacting cellulose paper of low water content with gaseous formaldehyde. 3,310,363, 3-21-67. Cl. 8—116.4.

Russell, James B., and H. S. Rose, to American Russkit Co. Steering guide for slot cars. 3,314,375, 4-18-67, Cl. 104—60.

Russell, James C., to Landmark Engineering, Inc. Continuous digging apparatus. 3,307,276, 3-7-67, Cl. 37—90.

Russell, James C. Pipe laying apparatus. 3,354,661, 11-28-67. Cl. 61—72.5.

Russell, James E., to United Aircraft Corp. Frequency or phase shift demodulator. Re. 26,210, 5-23-67, Cl. 329—103.

Russell, James E., and W. J. Shannahan, to Remote Measurements, Inc. Plural channel monitor displaying A. C. or D. C. information signals as a bar graph on an oscilloscope. 3,345,625, 10-3-67, Cl. 340—212.

Russell, James M., III, and W. E. Fox, to United States of America, National Aeronautics and Space Administration. Event recorder. 3,354,462, 11-21-67, Cl. 346—50.

Russell, John A., to A. O. Smith Corp. Cyclic code generating means. 3,345,500, 10-3-67, Cl. 235—61.11.

Russell, John D., to Conair, Inc. Method of transporting material and device therefor. 3,309,146, 3-14-67, Cl. 302—17.

Russell, John D., to Microdot Inc. Apparatus for temperature compensation of strain gages. 3,324,706, 6-13-67, Cl. 73—1.

Russell, John D., to Joy Mfg. Co. Roof cutting follower. 3,333,898, 8-1-67, Cl. 299—67.

Russell, John G., R. M. Bass, and E. J. Hellier, to Dowty Rotol Ltd. Variable pitch propellers. 3,321,023, 5-23-67, Cl. 170—160.51.

Russell, John P.: *See*—
Curtis, Harold E., Johnson, and Russell. 3,358,433.

Russell, John R.: *See*—
Bechter, Kathleen, and Russell. 3,353,579.
Steere, Frank W., Jr., and Russell. 3,344,684.

Russell, John S., and K. L. Cianchette, to Cianbro Mfg. Corp. Toggle device for lifting heavy objects. 3,307,871, 3-7-67, Cl. 294—86.

Russell, Joseph F., to Henry B. Russell and Sons, Inc. Refuse container. 3,313,569, 4-11-67, Cl. 294—73.

Russell, Joseph L., and A. D. Silber, to Halcon International, Inc. Method for preparing phenol-type compounds employing an improved catalyst. 3,358,044, 12-12-67, Cl. 260—621.

Russell, Kenneth A., to British Relay Ltd. Electrical signal distributing systems. 3,350,502, 10-31-67, Cl. 178—6.

Russell, Kenneth F., to Brogdex Co. Grommet means for sizing apparatuses. 3,348,679, 10-24-67, Cl. 209—84.

Russell, Kenneth H. Winnowing machine for blueberries. 3,306,440, 2-28-67, Cl. 209—27.

Russell, Lewis E., and J. D. Lawrence, to United Kingdom Atomic Energy Authority. Process for producing high density uranium carbide-plutonium carbide pellets. 3,338,989, 8-29-67, Cl. 264—.5.

Russell, Lewis K., W. H. Legat, and R. C. Hackley III, to Raytheon Co. Sensitized notched transducers. 3,320,568, 5-16-67, Cl. 338—2.

Russell, Lewis K., and W. H. Legat, to Raytheon Co. Scribed and notched PN- junction transducers. 3,327,525, 6-27-67, Cl. 73—88.5.

Russell, Lindsay. Sonar-type sensory aids. 3,321,737, 5-23-67, Cl. 340—1.

Russell, Linus E., to Peters and Russell, Inc. Surge chambers employing flexible membranes. 3,347,273, 10-17-67, Cl. 138—30.

Russell, Linus E., to Peters and Russell, Inc. Water strainer. 3,347,385, 10-17-67, Cl. 210—232.

Russell, Luther: *See*—
Dunn, Albert, and Russell. 3,307,216.

Russell, Malcolm C., to Russell Mfg. Co. Card cutting machine. 3,299,755, 1-24-67, Cl. 83—94.

Russell Mfg. Co., The: *See*—
Read, Thomas I. 3,300,826.
Russell, Malcolm C. 3,299,755.

Russell, Norman E., to Aluminum Goods Ltd. Container and tear strip type lid therefor. 3,356,250, 12-5-67, Cl. 220—54.

Russell, Peter B.: *See*—
Alburn, Harvey E., Clark, Grant, and Russell. 3,329,675.

Russell, Peter B., to American Home Products Corp. Therapeutic compositions for alleviation of intestinal infections containing 6 - [(2 - amino-phenylacetamido)-2-phenylacetamido] penicillanic acid. 3,308,023, 3-7-67, Cl. 167—65.

Russell, Richard E. Drill dispensing container. 3,319,780, 5-16-67, Cl. 206—17.

Russell, Richard R., and F. L. Bridges, to Union Carbide Corp. High performance falling-film cooler-absorber. 3,318,588, 5-9-67, Cl. 261—153.

Russell, Robert B.: *See*—
Russell, Robert B., and Vitu. 3,324,292.

Russell, Robert B. Thermographic transfer sheet having a support of a paper and plastic coating and the method of use. 3,301,697, 1-31-67, Cl. 117—36.4.

Russell, Robert B., and G. A. Vitu, said Vitu assor. to said Russell. Thermographic copying apparatus with means to reverse the movement of a continuous transfer sheet. 3,316,403, 4-25-67, Cl. 250—65.

Russell, Robert B., and G. A. Vitu, to R. B. Russell. Thermographic copying machine with a series of driven rollers to separate the copy and transfer sheets. 3,324,292, 6-6-67, Cl. 250—65.

Russell, Robert C., to Eaton Yale & Towne Inc. Brake mechanism and system. 3,298,470, 1-17-67, Cl. 188—106.

Russell, Robert C., to Eaton Yale & Towne Inc. Automatic brake adjuster. 3,334,709, 8-8-67, Cl. 188—79.5.

Russell, Robert C., to Eaton Yale & Towne Inc. Automatic brake adjuster. 3,334,713, 8-8-67, Cl. 188—196.

Russell, Robert G., to Owens-Corning Fiberglas Corp. Method for production of glass fibers. 3,345,147, 10-3-67, Cl. 65—3.

Russell, Robert H., to Electro-Optical Systems, Inc. Converter/regulator feedback reference. 3,336,521, 8-15-67, Cl. 321—18.

Russell, Robert O.: *See*—
Limes, Robert W., and Russell. 3,304,186.
Limes, Robert W., and Russell. 3,304,187.

Russell, Robert W., to McGraw-Edison Co. Transformer coil having improved short circuit strength. 3,315,197, 4-18-67, Cl. 336—84.

Russell, Roger B., Jr., and M. R. Bates, to United States of America, Navy. Probability analyzer. 3,348,031, 10-17-67, Cl. 235—150.5.

Russell, Roger B., Jr., and M. R. Bates, to United States of America, Navy. Ships strain measuring system. 3,354,703, 11-28-67, Cl. 73—88.5.

Russell, Scott J.: *See*—
Hauser, Henry W., Schoenrade, and Russell. 3,356,738.

Russell, William D.: *See*—
St. Louis, Jacques B. J., and Russell. 3,309,579.

Russell, William E.: *See*—
Hogg, Grady R., Jr., Reavis, and Russell. 3,313,596.

Russell, William H.: *See*—
Rees, William W., and Russell. 3,295,980.

Russell, William J., to Robertshaw Controls Co. Switch operating unit. 3,304,800, 2-21-67, Cl. 74—527.

Russell, William J., to Robertshaw Controls Co. Snap action device. 3,306,998, 2-28-67, Cl. 200—67.

Russell, William M.: *See*—
Hynek, Walter J., Russell, and Ainslie. 3,333,280.

Russell, William S.: *See*—
Lodeesen, Herman J., and Russell. 3,329,536.
Lodeesen, Herman J., and Russell. 3,331,710.
Lodeesen, Herman J., and Russell. 3,347,713.

Russenberger, Victor. Circuit protector. 3,319,030, 5–9–67, Cl. 200—121.

Russey, Park, Dr. Sanitary diaper washer. 3,308,640, 3–14–67, Cl. 68—235.

Russey, Edward S., to Borg-Warner Corp. Transmission control mechanism. 3,335,618, 8–15–67, Cl. 74—472.

Russey, Edward S., and E. B. Duncan, to Borg-Warner Corp. Anti-rattle device for a torque transmitting mechanism. 3,355,909, 12–5–67, Cl. 64—6.

Russin, Nicholas C., C. J. Kibler, and K. T. Barkey, to Eastman Kodak Co. Process for converting scrap polyester into active prepolymer particles followed by powder build-up to high molecular weights. 3,344,091, 9–26–67, Cl. 260—2.3.

Russo, Angelo. Unidirectional traffic control. 3,295,255, 1–3–67, Cl. 49—49.

Russo, Carl J., to Joseph Bancroft & Sons Co. Apparatus for producing a yarn package. 3,316,609, 5–2–67, Cl. 28—21.

Russo, Carl J., and E. H. Shattuck, to Joseph Bancroft & Sons Co. Apparatus for packaging yarn. 3,327,368, 6–27–67, Cl. 28—21.

Russo, Frank C.: *See*—
Buckley, Robert A., and Russo. 3,347,823.

Russo, John L., ½ to F. A. Ronci. Method for making elbows. 3,335,485, 8–15–67, Cl. 29—157.

Russo, John L., ½ to F. A. Ronci. Apparatus for the automatic manufacture of pipe unions. 3,344,450, 10–3–67, Cl. 10—87.

Russo, Joseph J., and M. S. La Monica, Jr. Oil cleaner. 3,346,120, 10–10–67, Cl. 210—439.

Russo, Roland, to A. O. Smith Corp. Overload protection device with heat shield interposed between heater and thermal elements. 3,313,900, 4–11–67, Cl. 200—124.

Russum, Gaillard R.: *See*—
Axelson, John W., and Russum. 3,350,929.

Rust, Frederick F.: *See*—
Klein, Harvey S., and Rust. 3,299,118.
Klein, Harvey S., and Rust. 3,329,707.

Rust, Rudolph: *See*—
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Rust, Willard A.: *See*—
Coleman, Ivan V., Smith, and Rust. 3,299,438.

Rustad, Stanley C.: *See*—
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Rustad, Stanley C., H. E. Wissman, R. D. Siverson, and M. Hasten, to General Mills, Inc. Bag closing machine. 3,313,089, 4–11–67, Cl. 53—371.

Ruston & Hornsby Ltd.: *See*—
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Ruszczycky, Mark A., and W. A. Middleton, to United States of America, Navy. Mechanism for deflection of a contra-rotating propeller system. 3,356,150, 12–5–67, Cl. 170—135.26.

Rut, Tadeusz, to Centralne Laboratorium Obrobki Plastycznej. Device and particularly forging apparatus for simultaneous upsetting and bending of material like bars, rods or ingots. 3,348,407, 10–24–67, Cl. 72—450.

Ruter, Hermann, E. Cherdron, and G. Bayer, to Gebruder Geulini G.m.b.H. Method of manufacturing pig iron and steel from iron ore and iron-oxide-containing waste materials. 3,295,958, 1–3–67, Cl. 75—38.

Ruter, Hermann, E. Cherdron, and F. Fassle, to Gebruder Giulini G.m.b.H. Process for preparing alpha calcium sulfate semihydrate from synthetic gypsums. 3,337,298, 8–22–67, Cl. 23—122.

Rutgerswerke-Aktiengesellschaft: *See*—
Sulo, Jozef, and Binder. 3,306,943.

Rutgerswerke und Teerverwertung Aktiengesellschaft: *See*—
Binder, Hans, Mayr, Sulo, and Turowki. 3,337,647.
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Ruth, Arthur P. Air replenishing device for air pressure operated water supply system. 3,318,324, 5–9–67, Cl. 137—209.

Ruth, Daniel H., to Landis Tool Co. Device for maintaining operative relation between a dressing tool and grinding wheel. 3,318,052, 5–9–67, Cl. 51—165.

Ruth, Elmer L.: *See*—
Gordon, James H., and Ruth. 3,295,722.

Ruth, Harold S., Jr. Contour shoulder pack. 3,347,429, 10–17–67, Cl. 224—11.

Ruth, Richard L., to General Electric Co. Data editing apparatus. 3,315,234, 4–18–67, Cl. 340—172.5.

Ruthazer, Leonard B., to Honeywell Inc. Conditional sum and/or carry adder. 3,316,393, 4–25–67, Cl. 235—175.

Ruthenberg, Ross E., to Motorola, Inc. Time delay circuit for briefly holding a selective call transmitter energized. 3,304,501, 2–14–67, Cl. 325—186.

Ruthenberg, Ross E., to Motorola, Inc. Receiver muting system for two-way radio communication equipment. 3,328,695, 6–27–67, Cl. 325—22.

Rutherford, David A., and R. J. McWilliams, to Abex Corp. Surface hardening apparatus. 3,300,197, 1–24–67, Cl. 266—4.

Rutherford Electronics Co.: *See*—
Hegarty, James M., and Lord. 3,323,123.

Rutherford, Harry T. Paste container and dispenser. 3,347,288, 10–17–67, Cl. 141—362.

Rutherford, Samuel J., to Purolator Products, Inc. Silicone rubber containing antimony tri sulfide and cured with peroxides. 3,357,940, 12–12–67, Cl. 260—37.

Rutherford, William F., to Freeman Chemical Corp. Interpolymers of aldehyde modified amides and polyallyl ethers of polyhydric alcohols. 3,298,978, 1–17–67, Cl. 260—15.

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Zollinger, Hans. 3,301,279.
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Rutkowski, Arthur: *See*—
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Di Cesare, John J., Jr., and Rutkowski. 3,323,270.

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Mageean, James V., and Rutkowski. 3,344,605.

Rutkowski, Eugene V. Injection cartridge. 3,308,818, 3–14–67, Cl. 128—173.

Rutledge, Thomas F., to Atlas Chemical Industries, Inc. Alkylation of urea. 3,297,752, 1–10–67, Cl. 260—553.

Rutledge, Thomas F., to Atlas Chemical Industries, Inc. Separation of alkyl ureas. 3,297,753, 1–10–67, Cl. 260—553.

Rutledge, William A., and J. J. Clarkson, to General Electric Co. Dynamoelectric machine rotor supporting structure. 3,350,588, 10–31–67, Cl. 310—90.

Rutledge, William A., and E. E. Kiningham, to General Electric Co. Method of producing machines having proper freedom of revolution for rotatable assemblies therein. 3,359,628, 12–26–67, Cl. 29—596.

Rutschmann, Jurg, H. Kobel, and E. Schreier, to Sandoz Ltd. (a/k/a Sandoz A.G.). Heterocyclic carboxylic acids and their production. 3,314,961, 4–18–67, Cl. 260—285.5.

Rutschmann, Jurg, and E. Schreier, to Sandoz Ltd. (also known as Sandoz A.G.). Aryl-tetralyl compounds and a process for their production. 3,347,870, 10–17–67, Cl. 260—340.5.

Rutten, Donald E. Collector ring construction. 3,314,038, 4–11–67, Cl. 339—5.

Ruttenbur, Donald M.: *See*—
Hemstreet, Russell A., and Ruttenbur. 3,309,844.

Rutter, Rolf: *See*—
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Rutter, John W., and E. M. Clausen, to General Electric Co. Method of making electrical heating elements. 3,355,802, 12–5–67, Cl. 29—614.

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Rutty, Edward C., to The Stanley Works. Dispensing reel. 3,309,039, 3–14–67, Cl. 242—128.

Rutty, Edward C., and G. E. Dudley, to The Stanley Works. Strap buckle. 3,336,639, 8–22–67, Cl. 24—74.

Rutulis, Uldis, to Northern Electric Co. Ltd. Compensated tunable cavity with single variable element. 3,311,839, 3–28–67, Cl. 330—4.9.

Rutz, Elisabeth M., to International Business Machines Corp. Re-directive antenna array and related communications system. 3,314,067, 4–11–67, Cl. 343—100.

Rutz, Hans: *See*—
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Rutz, Richard F., to International Business Machines Corp. Silicon carbide semiconductor device. 3,308,356, 3–7–67, Cl. 317—237.

Rutz, Richard F., to International Business Machines Corp. Oscillator consisting of an esaki diode in direct shunt with an impedance element. 3,325,703, 6–13–67, Cl. 317—234.

Rutz, William D., to Donald F. Gregg. Flavorings containing cyclohexanesulfamic acids and cyclamate salts for casein-containing products. 3,353,959, 11–21–67, Cl. 99—28.

Rutzebeck, John D. Woodworking tool. 3,360,023, 12–26–67, Cl. 144—134.

Ruuska, Paul E. Power driven reciprocating massaging device. 3,313,296, 4–11–67, Cl. 128—51.

Ruxton, Alexander L. Method for teasing hair. 3,358,696, 12–19–67, Cl. 132—7.

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Shen, Tsung-Ying, and Ruyle. 3,328,388.
Shen, Tsung-Ying, Ruyle, and Bugianesi. 3,352,849.

Ruyle, William V., and T.-Y. Shen, to Merck & Co., Inc. Alpha-(2-amino)-3-indolyl lower aliphatic acid derivatives. 3,320,278, 5–16–67, Cl. 260—326.12.

Ruys, Frans W. Setting device to be operated by means of keys destined for an adding or calculating machine, a cash-register or such-like device. 3,329,336, 7–4–67, Cl. 235—62.

Ruyter, Klaas: *See*—
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Ruzic, Neil P. Lunar cryostat. 3,355,050, 11–28–67, Cl. 220—9.

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Opfer, Waldo V., Jr., and Priestley. 3,333,793.
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Ryan, Arthur B., to The Gleason Works. Gear cutting tools and method of sharpening same. 3,354,525, 11–28–67, Cl. 29—95.

Ryan, Arthur F. Head mounted rebounding device. 3,341,201, 9–12–67, Cl. 273—67.

Ryan, Arthur P. Transmission and brake for crawler type vehicles. 3,312,318, 4–4–67, Cl. 192—4.

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Ryan, Danahey, to E. I. du Pont de Nemours and Co. Film splicing apparatus and process. 3,306,546, 2–28–67, Cl. 242—58.2.

Ryan, Daniel J., to FMC Corp. Apparatus for making thermoplastic films. 3,355,768, 12–5–67, Cl. 18—14.

Ryan, Daniel J., and A. W. Simaska, to FMC Corp. Die assembly. 3,320,634, 5–23–67, Cl. 18—12.

Ryan, Edmund J., and M. R. Mountien, 5% to S. B. Wiczer, and 95% to Poly-Ox, Inc. Disinfecting solution and method. 3,326,747, 6–20–67, Cl. 167—17.

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Ryan, Francis B., to F. B. Ryan Mfg. Co. Identification tape plow. 3,339,369, 9–5–67, Cl. 61—72.6.

Ryan, Frederick J., to United-Carr Inc. Flush mount indicator. 3,329,951, 7–4–67, Cl. 340—381.

Ryan, George J. Garbage bag holder. 3,329,382, 7–4–67, Cl. 248—99.

Ryan, George R., to Brunswick Corp. Method of molding and assembling. 3,336,654, 8–22–67, Cl. 29—429.

Ryan, Harry M.: *See*—
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Pauliukonis, Richard S., and Matlow. 3,319,433.

Ryan, Jack D., J. J. Nold, and R. D. Hughes. Granular fire starting material. 3,351,444, 11–7–67, Cl. 44—41.

Ryan, James J. Dental instrument cabinet. 3,338,650, 8–29–67, Cl. 312—209.

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Ryan, John D.: *See*—
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Neal, Franklin M., and Ryan. 3,320,415.

Ryan, John R.: *See*—
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Ryan, John W.: *See*—
Coaker, Antony W. M., Cohen, and Ryan. 3,297,792.

Ryan, John W., to Mattel, Inc. Animated speaking figure toy. 3,298,130, 1–17–67, Cl. 46—118.

Ryan, John W., to Mattel, Inc. Skip loader toy with sounding means. 3,308,573, 3–14–67, Cl. 46—40.

Ryan, John W., to Mattel, Inc. Animated speaking figure toy. 3,315,406, 4–25–67, Cl. 46—118.

Ryan, John W., to Dow Corning Corp. Modified polyalkyleneamine silicon compounds. 3,317,577, 5–2–67, Cl. 260—448.2.

Ryan, John W. Rocking horse with moving legs. 3,319,957, 5–16–67, Cl. 272—53.2.

Ryan, John W. Tuned reed motors. 3,324,366, 6–6–67, Cl. 318—37.

Ryan, John W., to Mattel, Inc. Material adapted for apparel manufacture. 3,325,826, 6–20–67, Cl. 2—243.

Ryan, John W., to Mattel, Inc. Game board having a laterally shiftable ball projector and rebound cushion means. 3,329,433, 7–4–67, Cl. 273—121.

Ryan, John W., to Mattel, Inc. Loose-leaf binder and paper-punch combination. 3,349,774, 10–31–67, Cl. 129—7.

Ryan, John W., to Mattel, Inc. Figure toy having compressed elastomeric stuffing and bonded cover. 3,354,578, 11–28–67, Cl. 46—158.

Ryan, John W., J. D. Moore, and W. D. Kabot, to Mattel, Inc. Suspension for two-wheeled vehicle. 3,301,575, 1–31–67, Cl. 280—275.

Ryan, John W., R. L. May, and M. Citron, to Mattel, Inc. Miniature spotwelder. 3,307,012, 2–28–67, Cl. 219—86.

Ryan, John W., and R. A. MacMeekin, to Mattel, Inc. Three wheeled velocipede. 3,311,388, 3–28–67, Cl. 280—269.

Ryan, John W., R. L. May, and J. de Gelder, to Mattel, Inc. Toy machine shop tool. 3,316,946, 5–2–67, Cl. 144—1.

Ryan, John W., and W. D. Kabot, to Mattel, Inc. Vehicle control apparatus. 3,321,047, 5–23–67, Cl. 188—24.

Ryan, John W., and R. Dunn, to Mattel, Inc. Adjustable figure toy having improved armature means. 3,325,939, 6–20–67, Cl. 46—156.

Ryan, John W., and D. J. Maurer, to Mattel, Inc. Gun toy having means for reproducing recorded gun-shot sounds. 3,331,606, 7–18–67, Cl. 274—1.

Ryan, John W., and R. A. MacMeekin, to Mattel, Inc. Toy vehicle having variable drive means and pliable track. 3,337,985, 8–29–67, Cl. 46—243.

Ryan, John W., W. D. Kabot, and J. H. Northrop, to Mattel, Inc. Cap gun toy. 3,341,964, 9–19–67, Cl. 42—57.

Ryan, John W., G. W. Sioles, and J. F. Munday, to Mattel, Inc. Toy pop gun having an air pump with a resiliently flexible movable chamber closure member. 3,342,171, 9–19–67, Cl. 124—1.

Ryan, John W., C. F. Adickes, Jr., and J. De Gelder, to Mattel, Inc. Pneumatic space capsule. 3,346,989, 10–17–67, Cl. 46—44.

Ryan, John W., J. Kossoff, R. L. May, and R. L. Cowell, to Mattell, Inc. Eye moving apparatus combining plural output means to produce one motion. 3,353,296, 11–21–67, Cl. 46—247.

Ryan, Joseph D., to Libbey-Owens-Ford Glass Co. Laminated glass structure. 3,351,518, 11–7–67, Cl. 161—199.

Ryan, Joseph H. Hair clip carrier. 3,342,387, 9–19–67, Cl. 224—5.

Ryan, Joseph R.: *See*—
Walther, Frank H., Jr., and Ryan. 3,354,940.

Ryan, Julian G.: *See*—
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Ryan, Kelly P., to Blair Mfg. Co., Inc. Cattle feeding device. 3,345,042, 10–3–67, Cl. 259—7.

Ryan, Mary G. S. Weighted wrist cuff exerciser. 3,301,552, 1–31–67, Cl. 272—80.

Ryan, Patrick W.: *See*—
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Ryan, Patrick W., to Sinclair Research Inc. Method for the production of paraxylene. 3,350,469, 10–31–67, Cl. 260—672.

Ryan, Patrick W., L. H. Beckberger, and R. M. Eichhorn, to Sinclair Research, Inc. Process for the production of durene. 3,326,997, 6–20–67, Cl. 260—672.

Ryan, Robert P.: *See*—
Addison, John S., and Ryan. 3,298,326.

Ryan, Thomas J., to Texas Instruments Inc. Hermetic sealed switch. 3,316,378, 4–25–67, Cl. 200—168.

Ryan, Thomas J., and I. P. Stapp, to American Electronic Laboratories, Inc. Method and apparatus for testing a transistor and selecting and identifying the unknown leads thereof. 3,356,945, 12–5–67, Cl. 324—158.

Ryan, Thomas R. Interchangeable ornament for buttons. 3,316,601, 5–2–67, Cl. 24—113.

Ryan, William H., to Polaroid Corp. Copper gluconate containing receiving element and its diffusion transfer photography use. 3,298,832, 1–17–67, Cl. 96—3.

Ryan, William H., to Polaroid Corp. Novel photographic products and processes. 3,313,625, 4–11–67, Cl. 96—29.

Ryan, William H., to Polaroid Corp. Photographic additive color images and prints utilizing light-polarizing media. 3,337,341, 8–22–67, Cl. 96—2.

Rybar, Teddy W., to United States Steel Corp. Rerailing platform for railway turnout switches. 3,296,433, 1–3–67, Cl. 246—423.

Ryberg, Arling W.: *See*—
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Ryberg, Arling W., to The Singer Co. Precision detent system. 3,314,301, 4–18–67, Cl. 74—527.

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Ryckaert, Andre, C. Domen, deceased (by L. J. H. Domen, nee Depauw, heir), to Solvay & Cie. Process for stabilizing aqueous solutions of hydrogen peroxide. 3,307,910, 3–7–67, Cl. 23—207.5.

Ryckman, William D., Jr., to General Electric Co. Bimetal with beater mounted through a channel formed by alternately spaced portions separated by slits. 3,312,802, 4–4–67, Cl. 200—122.

Rydborn, Sten-Ake O. Loom weft stop motion devices. 3,322,162, 5–30–67, Cl. 139—371.

Rydell, Edmund W. F. Self-adjusting wrench. 3,322,009, 5–30–67, Cl. 81—359.

Ryder, Dennis A.: *See*—
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Ryder, Elliott E., Jr., and R. K. June, to Shell Oil Co. Process for polymerizing unsaturated aldehydes and resulting products. 3,310,531, 3–21–67, Cl. 260—67.

Ryder, Francis E., to Illinois Tool Works Inc. Linearly pivoting light diffuser hanger. 3,344,270, 9–26–67, Cl. 240—144.

Ryder, James J. Abdominal support. 3,306,285, 2–28–67, Cl. 128—96.

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Poole, James P., Snyder, and Ryder. 3,314,772.

Ryder, Robert W., to Macartney Patents, Ltd. Pulverizing apparatus. 3,302,895, 2–7–67, Cl. 241—59.

Rydin, Sten O., to Svenska Cellulosa Aktiebolaget. Bleaching of cellulose pulp in towers in completely filled and closed system. 3,313,678, 4–11–67, Cl. 162—19.

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Rydman, Carl E., to Dennison Mfg. Co. Ink roller means in drum series printing apparatus. 3,359,894, 12–26–67, Cl. 101—97.
Rydstrom, Hans F. Image reproducing device. 3,346,977, 10–17–67, Cl. 40—28.
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Rye, Grover W., to The Goodyear Tire & Rubber Co. Method of reinforcing a rubber latex with carbon black by a pre-blending said carbon black with a phenol-aldehyde resin. 3,298,984, 1–17–67, Cl. 260—29.3.
Rye, John K., to F. Jos. Lamb Co. Method of making a hydrostatic spindle assembly. 3,332,133, 7–25–67, Cl. 29—156.5.
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Sackett, James W., to Cleveland Technical Center, Inc. Filter clogging indicator. 3,325,010, 6-13-67, Cl. 210—90.

Sackett, Paul J., to The A. J. Sackett & Sons Co. Ammoniator granulator apparatus. 3,312,530, 4-4-67, Cl. 23—259.1.

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Sackett, Walter J., Sr. Bulk blend plant and system. 3,313,529, 4-11-67, Cl. 259—154.

Sackett, Walter J., Sr. Tank type bulk blending plant. 3,314,557, 4-18-67, Cl. 214—16.

Sackett, Walter J., Sr., to A. J. Sackett & Sons Co. Automatic bin filling system for freeflowing materials. 3,319,808, 5-16-67, Cl. 214—17.

Sackett, Walter J., Sr. Apparatus for classifying dry solids. 3,321,079, 5-23-67, Cl. 209—38.

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Sackett, Walter J., Sr. Pulverizing mill. 3,342,426, 9-19-67, Cl. 241—189.

Sackett, Walter J., Sr. Apparatus for reducing size of materials. 3,348,781, 10-24-67, Cl. 241—264.

Sackis, John J., to Nalco Chemical Co. Process for breaking emulsions of the oil-in-water type. 3,316,181, 4-25-67, Cl. 252—344.

Sackler, Mortimer D.: *See*—
Halpern, Alfred, M. D. and R. R. Sackler. 3,360,535.
Sackler, Raymond R. 3,325,472.

Sackler, Raymond R.: *See*—
Halpern, Alfred, M. D. and R. R. Sackler. 3,360,535.

Sackler, Raymond R., to M. D. and R. R. Sackler, a copartnership. Polycyclohexose-polyoxyethyleneglycol suppository bases. 3,325,472, 6-13-67, Cl. 260—209.

Sackner Products, Inc.: *See*—
Copeland, Richard S. 3,354,020.

Sacks, Jacob M.: *See*—
Graves, Ross E., Jacob, and Sacks. 3,308,380.

Sacks, Jacob M., to TRW Inc. Sweep circuit for a frequency locked circuit. 3,303,434, 2-7-67, Cl. 331—111.

Sacks, Louis H.: *See*—
Blank, Stephen J., and Sacks. 3,309,705.

Sacks, Stanley E., to Tecnifax Corp. Projection game device. 3,339,288, 9-5-67, Cl. 35—9.

Sacks, William: *See*—
Underwood, William F., Carver, and Sacks. 3,337,665.

Sacks, William, to Union Carbide Corp. Method of producing clear, crystalline, high-gloss thermoplastic film. 3,322,870, 5-30-67, Cl. 264—95.

Sacre, Leo D.: *See*—
Anderson, Carl E., Elsner, Kent, and Sacre. 3,332,435.
Elsner, Burton D., and Sacre. 3,306,491.
Etsner, Burton D., and Sacre. 3,315,582.

Sada, William T. Device for reactivating cathode ray tubes. 3,313,588, 4-11-67, Cl. 316—28.

Saddler, Jerry W.: *See*—
Ohlsson, Leonard W., and Saddler. 3,317,082.

Saddler, Jerry W., and J. F. Morrison, to Whirlpool Corp. Bin structure. 3,345,119, 10-3-67, Cl. 312—274.

Sadler, Jacques R. Multiratio drive. 3,354,749, 11-28-67, Cl. 74—745.

Sadler, Jacques R. Machine-tool embodying automatic tool changing means. 3,354,761, 11-28-67, Cl. 82—2.

Sadler, Albert J.: *See*—
Shields, John, and Sadler. 3,341,749.

Sadler Bros., Inc.: *See*—
Johnson, Charles W. 3,315,369.

Sadler, Harry J., to Hypro, Inc. Pump. 3,316,852, 5-2-67, Cl. 103—136.

Sadler, James E. Cotton picker bar pivot lubricating means. 3,355,229, 11-28-67, Cl. 308—78.

Sadler, John A., to Chubb-Mosler and Taylor Safer, Ltd. Electrical protection system. 3,307,176, 2-28-67, Cl. 340—411.

Sadler, Loren G., C. A. Smith, and J. K. Hale, to Sperry Rand Corp. Manure spreader paddle. 3,295,855, 1-3-67, Cl. 275—15.

Sadler, Samuel S., Jr. Vehicle bumper constituting a pressurized reciptacle and hitch means. 3,338,614, 8-29-67, Cl. 293—69.

Sadler, William S., to Ball Bros., Inc. Television receiver having dual function as monitor and oscilloscope. 3,337,684, 8-22-67, Cl. 178—7.5.

Sadlow, Chester A., P. Reichner, and R. W. Wolfe, to Westinghouse Electric Corp. Air conditioning and lighting system. 3,326,112, 6-20-67, Cl. 98—40.

Sadlow, Joseph F.: *See*—
Bartlett, Philip D., Erikson, and Sadlow. 3,344,730.

Sadove, Max S.: *See*—
Shulman, Morton. 3,325,352.

Sadove, Max S. and S. J. Skowronski, to Chemetron Corp. Portable isolation roomette. 3,345,996, 10-10-67, Cl. 135—1.

Sadowski, Edward P., to The International Nickel Co., Inc. Process for heat treating cast maraging steels. 3,341,372, 9-12-67, Cl. 148—142.

Sadron, Charles, G. Finaz, and A. Skoulios, to Centre National de la Recherche Scientifique, Ministere de l. Education Nationale. Mesomorphic phase polymers. 3,355,513, 11-28-67, Cl. 260—857.

Sadwith, Howard M., to Industrial Washing Machine Corp. Washing small parts. 3,350,224, 10-31-67, Cl. 134—33.

Saeger, Gert, to Stielow G.m.b H. Controllable free-running clutch. 3,319,749, 5-16-67, Cl. 192—27.

Saegusa, Takeo: *See*—
Furukawa, Junji, Saegusa, and Imai. 3,314,898.

Saeki, Akio, and Y. Horiguchi to Nippon Electric Co., Ltd. Isolator-modulator. 3,299,372, 1-17-67, Cl. 332—51.

Saeki, Shogo, and H. Matsumoto, to Mitsui Shipbuilding and Engineering Co., Ltd. Marine propeller. 3,310,116, 3-21-67, Cl. 170—159.

Saeki, Susumu. Rubber rolls for rubbing unhulled rice. 3,324,916, 6-13-67, Cl. 146—305.

Saeli, John J., to General Motors Corp. Transistorized D.C. motor speed control system. 3,348,112, 10-17-67, Cl. 318—332.

Saeli, John J., to General Motors Corp. Windshield wiper control system. 3,353,079, 11-14-67, Cl. 318—443.

Saeman, Walter C., to Olin Mathieson Chemical Corp. Process for dehydrating aluminum sulfate. 3,330,622, 7-11-67, Cl. 23—123.

Saemann, John S., and J. W. Smythe, to Orthopedic Equipment Co., Inc. Vacuum indicating connection for surgical wound-closing apparatus. 3,334,628, 8-8-67, Cl. 128—276.

Safar, John G., to Allen-Bradley Co. Armature current limiting circuit for a direct current motor. 3,305,720, 2-21-67, Cl. 318—328.

Safar, John G., to Allen-Bradley Co. Electrical control system. 3,305,721, 2-21-67, Cl. 318—328.

Safar, John G., to Allen-Bradley Co. Controlled source electrical motor speed system. 3,309,595, 3-14-67, Cl. 318—328.

Safe Flight Instrument Corp.: *See*—
Lewis, John R. 3,312,121.

Safegard Corp.: *See*—
Hegman, Robert L., and Weber. 3,300,828.
Hegman, Robert L., and Weber. 3,300,829.

Safeguard Business Systems Corp.: *See*—
Bell, Vincent G., Jr. 3,332,707.

Saferstein, Harry M., to Mechanical Mirror Works, Inc. Display wrapped mirror and blank for forming the wrapper thereof. 3,335,857, 8-15-67, Cl. 206—62.

Safety Clamps, Inc.: *See*—
Renfroe, Lester C., and M. E. T. 3,300,242.

Safety Electrical Equipment Corp.: *See*—
Wharton, William R. 3,315,139.

Sallir, Jacob A. Dental handpiece. 3,324,552, 6-13-67, Cl. 32—26.

Safford, Earl. Refuse containers. 3,298,533, 1-17-67, Cl. 211—71.

Safford, Earl. Cup-saucer insert to absorb drippings. 3,357,590, 12-12-67, Cl. 220—23.83.

Safford, Moyer M., and F. F. Holub, to General Electric Co. Compositions of vinyl halide resins, triallyl cyanurate, and trioctyl trimellitates, and cured products therefrom. 3,351,604, 11-7-67, Cl. 260—31.8.

Safir, Sidney R.: *See*—
Greenblatt, Eugene N., and Safir. 3,344,026.
Hofmann, Corris M., and Safir. 3,317,390.

Safir, Sidney R., and R. P. William, to American Cyanamid Co. Trimethoxy benzoylacetaldehyde oximes. 3,340,300, 9-5-67, Cl. 260—566.

Safranko, John W.: *See*—
Teal, James L., Van Hall, Stenger, and Safranko. 3,296,435.

Safti-Vial Corp.: *See*—
Ogle, Robert W. 3,321,098.

Sagalow, Morton, to General Precision Inc. Squirrel-cage rotor. 3,360,669, 12-26-67, Cl. 310—211.

Sagar, Harold: *See*—
Owen, John B., and Sagar. 3,309,223.

Sagar, Lester R., to Minerals & Chemicals Philipp Corp. Method for granulating material of plastic consistency and system therefor. 3,346,197, 10-10-67, Cl. 241—23.

Sagara, Hideo. Turbine device. 3,306,577, 2-28-67, Cl. 253—77.

Sagara, Mitsuo: *See*—
Fukuda, Junichi, Suzuki, Ikebe, and Sagara. 3,310,592.

Sagawa, Ryuichi, to Kawasaki Jukogyo Kabushiki Kaisha. Mechanism for mutual change between different types of displacement and an amplifier of force or torque. 3,354,785, 11-28-67, Cl. 91—49.

Sagawa, Ryuichi, and H. Sugimoto, to Kawasaki Jukogyo Kabushika Kaisha. Hydraulic rotary servo mechanism. 3,308,721, 3-14-67, Cl. 91—375.

Sage, Frederick, to United Kingdom Atomic Energy Authority. Prestressed concrete pressure vessels for use in nuclear installations. 3,355,357, 11-28-67, Cl. 176—40.

Sage, Ira H.: *See*—
Llpp, Charles E., Martin, Sage, and Vicary. 3,349,982.

Sage Laboratories, Inc.: *See*—
Saad, Theodore S. 3,358,248.

Sage, Leopold C.: *See*—
Van Langenhoven, Jules E., Billingslea, Sage, Adams, and Joyce. 3,302,523.

Sage, Lyle, R. Van Schaick, and M. L. Hermansen, to Climate Mfg. Co., Inc. Flush vent assembly. 3,327,609, 6-27-67, Cl. 98—62.

Sage, Thomas E. H. Vibratory and oscillatory conveyors. 3,338,385, 8-29-67, Cl. 198—220.

Sagen, Gunnar, and K. E. H. Christensen, to I/S Kahler & Co. Mineral wool-producing system and method of producing mineral wool. 3,303,009, 2-7-67, Cl. 65—8.

Sager, James R., to Owens-Illinois, Inc. Inspecting hypodermic syringe cartridges and the like. 3,307,696, 3-7-67, Cl. 209—111.5.

Sager, James R., to Owens-Illinois, Inc. Photo-electric registration system with pulse signal delay. 3,313,943, 4-11-67, Cl. 250—222.

Sagerer, Johann, to F. X. Meiller Fabrzeug- und Maschinenfabrik K.G. Grab shovel for tractive vehicles. 3,296,720, 1-10-67, Cl. 37—117.5.

Saginaw Machine & Tool Co.: *See*—
Cashman, Robert W. 3,299,752.
Cashman, Robert W. 3,335,480.
Cashman, Robert W., and Wasco. 3,306,076.

Saginaw Products Corp.: *See*—
Colwell, Roy A. 3,313,556.
Klemm, Edwin O., and Mulholland. 3,311,387.
Mulholland, George K., and Taylor. 3,297,112.

Sagiroglu, Nuri. Cytologic pan-scraper. 3,352,299, 11-14-67, Cl. 128—2.

Sah, Chih-Tang: *See*—
Leistiko, Otto, Jr., and Sah. 3,335,342.

Saha, Aatto P., to Carrier Corp. Furnace. 3,327,762, 6-27-67, Cl. 158—1.5.

Saha, Aatto P., to Carrier Corp. Flame stabilization. 3,339,613, 9-5-67, Cl. 158—1.5.

Saha, Aatto P., to Carrier Corp. Burner. 3,339,617, 9-5-67, Cl. 158—115.

Saheb, Souheil E.: *See*—
Mertes, Mathias P., and Saheb. 3,324,126.

Sahm, Roland R., to Broadway Metals & Fabricators, Inc. Weather sealed door-frame construction and method of fabrication. 3,358,402, 12-19-67, Cl. 49—401.

Sahmel, Otto H., to Bausch & Lomb Inc. Sample applicator used in electrophoresis. 3,360,454, 12-26-67, Cl. 204—299.

Sahores, Jean, J. Vanuxem, and J. Capiaux, to Societe Anonyme: Societe Nationale des Petroles d'Aquitaine. Sample carrier feeder with subsequent article manipulating means. 3,332,577, 7-25-67, Cl. 221—238.

Sahrbacker, Edward V., to Carling Electric Inc. Variable speed control for power hand tools and the like. 3,327,196, 6-20-67, Cl. 318—345.

Sahrbacker, Edward V., to Carling Electric, Inc. Multi-position lock for trigger switch. 3,329,789, 7-4-67, Cl. 200—157.

Sahulka, Richard J., to International Business Machines Corp. Serial-to-parallel and parallel-to-serial buffer-converter using a core matrix. 3,333,253, 7-25-67, Cl. 340—172.5.

Saia, Frank J., and J. G. Quetsch, to Hughes Aircraft Co. Electroplating process for semiconductor devices. 3,324,015, 6-6-67, Cl. 204—15.

Saia, Frank J., D. F. James, and L. G. Hammock, to Hughes Aircraft Co. Top contact for surface protected semiconductor devices. 3,339,274, 9-5-67, Cl. 29—578.

Saia, Frank J., and G. N. McIntyre, to Hughes Aircraft Co. Package for semiconductor devices and method of making same. 3,354,258, 11-21-67, Cl. 174—52.

Saida, Toyoyasu: *See*—
Otsuka, Eiji, and Saida. 3,303,215.

Saijo, Tsutomu: *See*—
Inoshita, Kagenobu, Saijo, and Kajiue. 3,324,216.

Saikawa, Isamu: *See*—
Takai, Akira, Saikawa, Kodama, Matsubara, and Hirai. 3,303,188.
Takai, Akiri, Saikawa, Yasuyuki Suzuki, Tanabe, Kishida, and Yoshio Suzuki. 3,338,894.

Salle, George O., Jr. and G. O. Saile, Sr. Scoring device. 3,310,898, 3-28-67, Cl. 40—96.

Salle, George O., Sr.: *See*—
Saile, George O., Jr. and G. O. Saile, Sr. 3,310,898.

Saller, Richard: *See*—
Berther, Clau, Saller, and Giesen. 3,342,878.

Sailor, Robert A.: *See*—
Payne, John W., Sailor, and Farber. 3,351,548.

Saima, Tooru, to Tokyo Shibaura Electric Co., Ltd. Stabilizing railway truck. 3,352,256, 11-14-67, Cl. 105—199.

Saimanov, Anatoly N., and V. F. Sovkin. Waviness tester for cylindrical surfaces of parts such as bearing fact grooves. 3,353,276, 11-21-67, Cl. 33—174.

Sain, Bernard S. Brake pedal depressing and holding device. 3,316,777, 5-2-67, Cl. 74—532.

Sain, John P.: *See*—
Burchett, Ray L., and Sain. 3,349,577.

St. Barnabas Brotherhood, Inc.: *See*—
Hopkinson, Paul O. W., Jr. 3,334,401.

St. Barnabas Free Home, Inc.: *See*—
Hopkinson, Paul O. W. 3,314,371.

St. Clair, David L.: *See*—
Amberg, Stephen W., Vicary, and St. Clair. 3,354,604.

St. Clair, David L., S. W. Amberg, T. E. Doherty, and J. Phillips, to Lily-Tulip Cup Corp. Dispensing, filling and capping of portion containers. 3,354,614, 11-28-67, Cl. 53—282.

St. Clair, Gordon P.: *See*—
Detmer, William J., III. 3,303,845.

St. Clair, Hal K., to International Business Machines Corp. Apparatus for magnetically recording data at a random location. 3,312,962, 4-4-67, Cl. 340—174.1.

St. Clair, Jimmy C., to Thiokol Chemical Corp. System and apparatus for obtaining and correlating surface data measurements. 3,311,919, 3-28-67, Cl. 346—33.

St. Clair, John C. Method of erecting supports and roofs over water for liquified gas storage. 3,340,692, 9-12-67, Cl. 61—.5.

St. Clair, Melvin E., to The American Society for the Prevention of Cruelty to Animals. Apparatus for the humane slaughter of small animals. 3,324,503, 6-13-67, Cl. 17—1.

St. Clair, Theodore A., to Textron Inc. Compensating index drive means. 3,350,939, 11-7-67, Cl. 73—272.

St. Clair, Theodore A., and E. L. Greenhill, to Textron Inc. Gas impervious diaphragms. 3,340,734, 9-12-67, Cl. 73—279.

Sainte-Claire, Joseph D. Ship controls. 3,304,898, 2-21-67, Cl. 114—39.

Ste. Commerciale Paulstra: *See*—
Morion, Jean. 3,296,638.

Ste. Fruehauf International, Ltd.: *See*—
Godbille, Francois. 3,307,722.

Ste. Nouvelle d'Electronique & de la Radio-Industrie: *See*—
Mayer, Jean-Jacques G. 3,324,455.

Saint-Genis, Robert: *See*—
Chezaud, Jean C., Muller, and Saint-Genis. 3,339,237.

Saint-Gobain Nucleaire: *See*—
Lucas, Jean C. 3,354,616.

Saint Gobain Techniques Nouvelles: *See*—
Bonnin, Andre, and Yardamian. 3,345,305.

Saint-Jacques, Eugene C. Dust filter apparatus. 3,321,892, 5–30–67, Cl. 55—299.

Saint-Joanis, Andre: *See*—
Chabrier, Henri, and Saint-Joanis. 3,311,301.
Chabrier, Henri-Pierre, and Saint-Joanis. 3,348,772.

Saint-Joanis, Andre, and G. Loriot. Fluid distributor devices. 3,326,239, 6–20–67, Cl. 137—625.66.

St. Joe Paper Co.: *See*—
Jones, Joe. 3,337,115.

St. John, Edward A., to NRA, Inc. Solid tritium and deuterium targets for neutron generator. 3,320,422, 5–16–67, Cl. 250—84.5.

St. John, John H., to Marquette Corp. Polarity control system. 3,308,365, 3–7–67, Cl. 320—25.

St. John, Oliver B.: *See*—
Curties, Maurice C. and St. John. 3,322,939.

St. Joseph Lead Co.: *See*—
Huffman, Henry R., and Evans. 3,310,438.
Kinsell, David. 3,346,677.
Krantz, Tibor, Evans, and Lund. 3,320,664.
Ratcliff, Nigel A., and Roberts. 3,301,672.
Roberts, David H. 3,315,342.
Walrond, John E. 3,346,409.
Warnes, Don E. 3,346,364.

St. Joseph Paper Box Co.: *See*—
Hamilton, Alexander, Jr., and C. D. Hamilton. 3,343,743.

St. Lawrence, John J., and A. L. McMahon. Flag and jardiniere holder. 3,326,504, 6–20–67, Cl. 248—27.8.

St. Lawrence Sales Inc.: *See*—
Wills, Robert F. 3,326,140.

St. Louis, Jacques R.: *See*—
Johnson, Earl F., and St. Louis. 3,328,215.

St. Louis, Jacques R. J., and W. D. Russell, to Northern Electric Co. Ltd. Mounting assembly for electrical components. 3,309,579, 3–14–67, Cl. 317—101.

St. Louis Janitor Supply Co.: *See*—
Sutliff, Wayne N. and M. W. 3,352,359.
Wool, Harvin S., Lebman, and Feldman. 3,357,923.

Sainton, Joseph B., to Continental Electronics Mfg. Co. High efficiency amplifier and push-pull modulator. 3,314,024, 4–11–67, Cl. 332—43.

St. Onge, William R. Foldable pet house. 3,324,831, 6–13–67, Cl. 119—19.

St. Pierre, Henry. Rope or cable clamp. 3,333,303, 8–1–67, Cl. 24—125.

St. Pierre, Philippe D. S., to General Electric Co. Process for the production of plutonium oxide-containing nuclear fuel powders. 3,327,027, 6–20–67, Cl. 264—.5.

St. Pierre, Philippe D. S., to General Electric Co. High density urania fuel elements. 3,342,562, 9–19–67, Cl. 23—355.

St. Pierre, Richard E.: *See*—
Arthur, James B., Godwin, and St. Pierre. 3,329,543.

St. Regis Paper Co.: *See*—
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Burroughs, Edwin E. 3,300,363.
Carlson, Willard E., and Myers. 3,337,392.
Contratto, Robert J. 3,297,228.
Haffey, John E. 3,342,321.
Harding, Francis. 3,328,220.
Hawkins, Robert F. 3,326,708.
Herrick, Ivan, Adams, and Huffaker. 3,325,473.
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Pace, Thomas M. 3,303,929.
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Russell, James, Carlson, and Mayhood. 3,310,363.
Stockel, Ivar H., and Taylor. 3,307,596.
Wakeman, Alden H. 3,344,587.
Wakeman, Alden H., and Roahen. 3,330,127.

Saintsbury, John A., to United Aircraft of Canada Ltd. Glow plug igniters. 3,297,914, 1–10–67, Cl. 317—98.

Saintsbury, John A., to United Aircraft of Canada Ltd. Aerodynamic flow reverser and smoother. 3,333,414, 8–1–67, Cl. 60—39.65.

St. Thomas Inc.: *See*—
St. Thomas, William H. 3,295,645.

St. Thomas, William H., to St. Thomas Inc. Carrier. 3,295,-645, 1–3–67, Cl. 190—48.

Sair, Louis, and C. L. Griffith, to The Griffith Laboratories, Inc. Non-caking curing salt composition for meat and methods for making same. 3,335,016, 8–8–67, Cl. 99—222.

Sair, Louis, and L. Klee, to The Griffith Laboratories, Inc. Extracting values from turmeric. 3,340,250, 9–5–67, Cl. 260—236.5.

Sait, Peter A., to Esso Research and Engineering Co. Float valve. 3,351,083, 11–7–67, Cl. 137—399.

Saita, Haruo: *See*—
Saita, Jisaburo and H. 3,301,347.

Saita, Jisaburo and H. Lifesaving equipment to be used for structures. 3,301,347, 1–31–67, Cl. 182—48.

Saito, Kunio: *See*—
Marumo, Hirofuto, and Saito. 3,360,549.

Saito, Noboru, to Toa Electrics Ltd. Heated type variable resistor. 3,333,222, 7–25–67, Cl. 338—22.

Saito, Selichi: *See*—
Kida, Tokurou, Matsuda, Saito, and Yuasa. 3,353,993.

Saito, Shigeru, T. Watanabe, and K. Noguchi, to Kureha Kagaku Kabushiki Kaisha. Photochemical reactor. 3,345,140, 10–3–67, Cl. 23—285.

Saito, Sobei, Y. Yagi, S. Tsunoda, N. Fuyimoto, K. Irie, and Y. Hatano, to Teikoku Jinzo Kenshi Kabushiki Kaisha. Apparatus for manufacturing continuously cellulose esters from cellulose ester solution. 3,331,099, 7–18–67, Cl. 18—1.

Saito, Sukeyoshi. Testing apparatus for applying rapidly fluctuating air pressure on test specimens. 3,357,235, 12–12–67, Cl. 73—37.

Saito, Tadaomi, A. Yamazaki, T. Meguro, I. Kumashiro, and T. Takenishi, Ajinomoto Co., Inc. Method of preparing inosine or derivative thereof. 3,337,528, 8–22–67, Cl. 260—211.5.

Saito, Takashi: *See*—
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Saito, Yoshiro: *See*—
Amagasa, Masataka, Yamaguchi, and Saito. 3,359,339.
Mochizuki, Masaji, and Saito. 3,356,890.

Saito, Yukio, and K. Okamoto, to Sankyo Co., Ltd. Polarographic apparatus. 3,360,719, 12–26–67, Cl. 324—31.

Saj, Stanley, and D. O. Burns. Electrical fire guard. 3,317,-740, 5–2–67, Cl 307—39.

Sajulan, Bruno L. Fish trap. 3,337,982, 8–29–67, Cl. 43—65.

Sak, August B., and E. A. Price. Adjustable mounting assembly. 3,352,428, 11–14–67, Cl. 211—87.

Sak, August B., and E. A. Price. Modular construction and support means therefor. 3,356,403, 12–5–67, Cl. 287—189.36.

Sakaguchi, Kinichiro, M. Kibi, and A. Kuninaka, to Yamasa Shoyu Kabushiki Kaisha (d.b.a. Yamasa Shoyu Co., Ltd.). Flavoring composition containing sodium inosinate and monosodium glutamate. 3,318,710, 5–9–67, Cl. 99—140.

Sakai, Hiroshi, H. Hara, and A. Akioka, to The Nisshen Oil Mills Ltd. Denatured soybean protein and methods of making the same by treating at temperatures below 5° C. 3,303,182, 2–7–67, Cl. 260—123.5.

Sakai, Jun: *See*—
Honda, Hidehisa, and Sakai. 3,352,367.

Sakai, Masahiro: *See*—
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Sakai, Michihiko, M. Kato, Y. Sato, K. Konishi, and T. Okutani, to Takeda Chemical Industries, Ltd. Pesticidal O,O-dimethyl-O-(2- or 3-methoxy-4-cyanophenyl) phosphorothioate. 3,301,749, 1–31–67, Cl. 167—30.

Sakai, Michihiko, M. Kato, H. Hagiwara, and K. Konishi, to Takeda Chemical Industries, Ltd. Dithiocyanato amino alkanes. 3,318,936, 5–9–67, Cl. 260—454.

Sakai, Ryo: *See*—
Asaeda, Toshio, Sakai, and Hirano. 3,300,907.

Sakai, Saisuke. Chalk holder. 3,332,714, 7–25–67, Cl. 294—16.

Sakai, Tokuji: *See*—
Tanaka, Ikuzo, and Sakai. 3,341,511.

Sakai, Yasuji, to Sakaiya Co. Ltd. Apparatus for breaking eggs automatically. 3,324,911, 6–13–67, Cl. 146—2.

Sakaiya Co. Ltd.: *See*—
Sakai, Yasuji. 3,324,911.

Sakaki, Yasuhiro: *See*—
Hammamoto, Masao, and Sakaki. 3,322,528.

Sakalys, Stanley, to Brier Mfg. Co. Plastic lipstick holder. 3,308,939, 3–14–67, Cl. 206—56.

Sakamoto, Hideo: *See*—
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Sakamoto, Hiromitsu, to Victor Co. of Japan, Ltd. Press machine for molding records. 3,298,059, 1–17–67, Cl. 18—5.3.

Sakamoto, Tatsuo, and Y. Sano, to Matsuchita Electric Industrial Co., Ltd. Electric cooking apparatus having thermomagnetic temperature control means. 3,328,561, 6–27–67, Cl. 219—442.

Sakamoto, Yoshizo. Process of deodorizing garlic. 3,326,698, 6–20–67, Cl. 99—140.

Sakano, Takeshi, and K. Toda, to Mitsubishi Kinzoku Kogya Kabushiki Kaisha. Aluminum alloy for galvanic anodes. 3,312,545, 4–4–67, Cl. 75—146.

Sakasegawa, Eugene I., to Winston Research Corp. Transducer head utilizing electromagnetic shielding for cross-talk elimination. 3,316,359, 4–25–67, Cl. 179—100.2.

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Sakata, James T. Combined food cooking and serving arrangement. 3,313,287, 4–11–67, Cl. 126—216.

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Sakata, Minoru: *See*—
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Sakharnov, Vasily A., S. I. Kuchuk-Jatsenko, E. I. Shinlov, and M. P. Khudjakov to Institute Elektrosvarki E. O. Paton. Device for adjusting items melting speed in butt welding machine. 3,335,257, 8–8–67, Cl. 219—101.

Sakimoto, Reiji: *See*—
Miyazaki, Koshin, Hashimoto, Kaji, Sakimoto, Taniguchi, and Noguchi. 3,334,126.
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Sakita, Yoichi, and M. Maruta. Steering wheel of an automobile and the like equipped with the cigarette gas lighter. 3,304,801, 2–21–67, Cl. 74—552.

Sakomura, Toshio, M. Kikuchi, and H. Shimizu, to Toyo Soda Mfg. Co., Ltd., and Japan Organo Co., Ltd. Process for refining phosphoric acid preparations. 3,297,401, 1–10–67, Cl. 23—165.

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Sakraida, Frank T.: *See*—
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Sakshaug, Eugene C., and E. W. Stetson, to General Electric Co. Lightning arrester for high energy switching surges. 3,320,482, 5–16–67, Cl. 317—61.

Sakuma, Akihiko, to Agency of Industrial Science Technology. System for measuring time intervals by means of timing pulses. 3,296,525, 1–3–67, Cl. 324—68.

Sakuma, Toramitsu, and I. Nakamura, to Hamano Resin Co., Ltd. Process for preparing graft copolymers of styrene-acrylonitrile-methyl methacrylate onto butadiene-styrene copolymer. 3,336,417, 8–15–67, Cl. 260—880.

Sakurada, Jim H., to Amsted Industrial Inc. Bell and spigot joint. 3,315,971, 4–25–67, Cl. 277—207.

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Imai, Kiyokazu, and Sakurada. 3,297,794.

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Sakurai, Ryoichi, and T. Shima, to Teikoku Jinzo Kenshi Kabushiki Kaisha. Sulfonic acid ester modified polyesters. 3,313,778, 4–11–67, Cl. 260—49.

Sakurai, Ryoichi, S. Tsunawaki, K. Nawata, T. Shima, and I. Fujimoto, to Teikoku Jinzo Kenshi Kabushiki Kaisha. Polyester compositions having improved dyeability. 3,314,-920, 4–18–67, Cl. 260—75.

Sakurai, Setsuji: *See*—
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Sakuta, Daniel: *See*—
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Sakuyama, Shigeru, K. Oda, T. Ohara, N. Shimizu, and T. Nakamura, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method of producing aromatic nitriles in the vapor phase in the presence of manganese paratungstate as a catalyst. 3,312,710, 4–4–67, Cl. 260—294.9.

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Lundmark, Werner N. 3,346,113.
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Salcedo, Gumicio, to Yardney International Corp. Gas electrode for a fuel cell containing radioactive material. 3,303,-055, 2–7–67, Cl. 136—120.

Salcer, William Z., to B. & S. Plastic Art, Inc. Intermediate article for making plastic articles. 3,323,976, 6–6–67, Cl. 161—118.

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Saldi, Ideal T., to General Electric Co. Photoconductive pick-up tube field mesh support. 3,321,655, 5–23–67, Cl. 313—65.

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Cranskens, Georg, and Salger. 3,304,849.
Cranskens, Georg, and Salger. 3,359,380.

Salger, Werner, to Lumoprint Zindler K.G. Time switch for controlling an electrical circuit of a process or apparatus for a preset period. 3,296,390, 1–3–67, Cl. 200—33.

Salger, Werner, to Werner Zindler d.b.a. Lumoprint Zindler KG. Contact printing devices. 3,352,222, 11–14–67, Cl. 95—73.

Salgo, Francis J., and G. S. P. Freeman, to General Electrodynamics Corp. Vidicon with connected conductive coatings on both sides of faceplate. 3,360,671, 12–26–67, Cl. 313—65.

Sall, Evelino. Reciprocating or vibratory electric razor. 3,324,-545, 6–13–67, Cl. 30—45.

Sallgny, Claude, to Societe Rhodiaeta. Production of non-woven fibrous structures. 3,342,919, 9–19–67, Cl. 264—178.

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Sallie, Stanley H., and N. D. Olson, to Bird & Son, Inc. Siding construction. 3,304,676, 2–21–67, Cl. 52—276.

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Salminen, Paavo V. L., to Etablissement Pasinvest. Bottle closure. 3,330,433, 7–11–67, Cl. 215—41.

Salminen, Wilho M., to Eastman Kodak Co. Preparation of photographic direct positive color images. 3,330,655, 7–11–67, Cl. 96—3.

Salminen, Wilho M., to Eastman Kodak Co. Preparation of photographic direct positive color images and photographic elements therefor. 3,347,671, 10–17–67, Cl. 96—3.

Salminen, Wilho M., to Eastman Kodak Co. Photographic element comprising polycarbonate resin coated paper. 3,352,-679, 11–14–67, Cl. 96—77.

Salminen, Wilho M., and J. H. van Campen, to Eastman Kodak Co. Receiving sheet for photographic dyes. 3,312,-549, 4–4–67, Cl. 96—29.

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Salna, Karl, to International Harvester Co. Material handling attachment. 3,341,041, 9–12–67, Cl. 214—145.
Salners, Edward A., and T. R. Steele, to Motorola, Inc. Deflection yoke mounting assembly. 3,297,895, 1–10–67, Cl. 313—77.
Salo, Eric A., to Eryx Corp. Contact heating apparatus and method. 3,336,013, 8–15–67, Cl. 261—39.
Salomon, Georges P. J. Ski boots safety barness. 3,326,566, 6–20–67, Cl. 280—11.35.
Salomon, Georges P. J. Rear safety securing device for skis. 3,326,568, 6–20–67, Cl. 280—11.35.
Salomon, Georges P. J. Heel clamp for ski binding. 3,332,696, 7–25–67, Cl. 280—11.35.
Salomon, Georges P. J. Safety ski binding. 3,350,110, 10–31–67, Cl. 280—11.35.
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Van Essen, Harold E., Jr., and Baron. 3,330,724.
Salt, Douglas F. Upsetting tools. 3,332,271, 7–25–67, Cl. 72—395.
Salt, Douglas F. Press tools. 3,340,721, 9–12–67, Cl. 72—395.
Salt, John A. Portable partition with telescoping tube support. 3,349,528, 10–31–67, Cl. 52—239.
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Saltness, Norman H. and M. H., to Bli Inc. Inflatable pillow. 3,298,044, 1–17–67, Cl. 5—338.
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Salvadori, Andre, P. Lovy, and M. Beigelman, to Service National dit Gaz de France. Fuel cell including packed catalytic substance. 3,359,134, 12–19–67, Cl. 136—86.
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Salvo, Mario. Structure for snow skis and the like, of pressed metal plate, preferably of steel. 3,360,277, 12–26–67, Cl. 280—11.13.
Salvo, Raymond C. Hydraulic actuating mechanism for garage doors. 3,319,303, 5–16–67, Cl. 49—199.
Salvodor, Carmelo. Indicator tape holder. 3,295,816, 1–3–67, Cl. 248—473.
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Salz, Robert B. Threaded fastener device. 3,329,057, 7–4–67, Cl. 85—1.
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Graber, Joseph V., and Salzmann. 3,345,678.
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Sam, George. Bodily attached hoop toy. 3,345,772, 10–10–67, Cl. 46—51.
Sam, Joseph. Thienocyclopentanone antibacterial agents. 3,301,874, 1–31–67, Cl. 260—332.3.
Sam, Joseph. 4-oxo-5-morpholino and phthalimido benzothiophenes. 3,316,258, 4–25–67, Cl. 260—247.1.
Sam, Joseph. 4-oxo-5 tertiary amino methyl-4,5,6,7-tetrahydrobenzo(b)thiophenes. 3,316,259, 4–25–67, Cl. 260—247.1.
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Sama, Lawrence, and G. T. Pepino, Jr., to United States of America, Atomic Energy Commission. Brazing alloy and method of brazing with same. 3,309,767, 3–21–67, Cl. 29—494.
Sama, Nicholas. Buoyant body holder for a tank. 3,310,269, 3–21–67, Cl 248—205.
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Samberger, Konrad, and R. Basner, to Siemens-Schuckertwerke Aktiengesellschaft. Device for controlling the effective value of an alternating load voltage. 3,328,675, 6–27–67, Cl. 323—22.

Samberger, Konrad, and G. Seidl, to Siemens-Schuckutwerke Aktiengesellschaft. Rectifier system for controlling the magnitude and polarity of direct voltage by means of two rectifier bridge networks. 3,331,009, 7–11–67, Cl. 321—8.
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Samford, Cloyd A. Vehicle seating arrangements. 3,357,717, 12–12–67, Cl. 280—87.
Samitz, Erwin, to Motorenfabrik Hatz G.m.b.H. Draw implement, particularly a ski lift device, for transportation of individuals. 3,307,494, 3–7–67, Cl. 104—173.
Sammarco, Alfred R., to Schenley Industries, Inc. Combination shipping and display carton. 3,351,183, 11–7–67, Cl. 206—44.
Sammarco, Peter, to International Harvester Co. Agricultural apparatus. 3,331,607, 7–18–67, Cl. 275—14.
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Samo, Harvey W., to Margon Corp. Unitary reflection doll eye with integral dark background. 3,359,679, 12–26–67, Cl. 46—165.
Samoilov, Vladimir P., N. V. Vasiljev, E. A. Vasilenko, G. V. Vinch, and I. P. Antonov, to Nauchno-Issledovatelsky Institute Osnovany i Sodzemnykh Soocoozheny. Device having adjustable knives for forming tunnels in soil. 3,332,721, 7–25–67, Cl. 299—33.
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Samos, George, and J. L. Bloom, to United States of America, Atomic Energy Commission. Preparation of heat sources for radioisotope heated thermoelectric generators. 3,330,889, 7–11–67, Cl. 264—.5.
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Sanford, William W., to Wave-Lock, Inc. Piezoelectric crystal assembly. 3,340,410, 9-5-67, Cl. 310—9.1.
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Sanger, Eugen, deceased, by I. Sanger-Bredt, heir and guardian of minor heir, to Junkers Flugzeug- und Motorenwerke Aktiengesellschaft. Rocket propelled craft. 3,327,970, 6-27-67, Cl. 244—53.
Sanger, Richard B., and W. D. Dalton, to General Electric Co. Resonant reed tone oscillator encoder and decoder. 3,332,034, 7-18-67, Cl. 331—116.
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Santelli, Thomas R., to Owens-Illinois, Inc. Foamed plastic articles. 3,341,043, 9–12–67, Cl. 215—1.

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Santilli, Arthur A., and T. S. Osdene, to American Home Products Corp. Aminobenzamides. 3,351,659, 11–7–67, Cl. 260—558.

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Santmyers, Donald, to E. I. du Pont de Nemours and Co. Process for the production of styrene-butadiene rubber in presence of coagulating system. 3,350,371, 10–31–67, Cl. 260—85.1.

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Santonider, Louis S. Hypodermic needle for a cannula placement unit. 3,330,278, 7–11–67, Cl. 128—214.4.

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Santoni, Ermenegildo. Photogrammetric plotting apparatus. 3,307,450, 3–7–67, Cl. 33—1.

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Santora, Frank, to Fundamental Research Inc. Finger associated weight means for bowlers. 3,298,689, 1–17–67, Cl. 273—54.

Santori, Jack, and S. R. Atkinson. Record storage rack. 3,308,960, 3–14–67, Cl. 211—40.

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Santos, Ernest W. Automatic injecting device. 3,343,722, 9–26–67, Cl. 222—70.

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Saraceno, Anthony J., to Pennsalt Chemicals Corp. Phosphate esters containing coordination polymers. 3,328,296, 6–27–67, Cl. 252—32.5.

Saraceno, Anthony J., to Pennsalt Chemicals Corp. Grease compositions. 3,331,774, 7–18–67, Cl. 252—32.5.

Saraceno, Anthony J., to Pennsalt Chemicals Corp. Lubricating compositions. 3,331,775, 7–18–67, Cl. 252—32.5.

Saraceno, Anthony J., to Pennsalt Chemicals Corp. Phosphate ester greases. 3,332,873, 7–25–67, Cl. 252—32.5.

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Sarah, Thomas F., to Pflueger Corp. Line pickup assembly for spinning reels. 3,325,115, 6–13–67, Cl. 242—84.2.

Sarah, Thomas F., to Pflueger Corp. Actuating mechanism for the line pickup in spinning reels. 3,327,962, 6–27–67, Cl. 242—84.2.

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Sarel, Shalom, Y. Yanuks, and Y. Shalon. Process for the preparation of butenolides derived from cyclopentano perhydro phenanthrenes. 3,342,813, 9–19–67, Cl. 260—239.57.

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Sarett, Lewis H., and H. D. Brown, to Merck & Co., Inc. Anthelmintic compositions containing benzimidazole derivatives. 3,357,884, 12–12–67, Cl. 167—53.

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Sargent, Horace W., Jr., G. H. Wotring, and D. L. Haag, to Subscription Television, Inc. Subscription television control meter. 3,335,421, 8–8–67. Cl. 346—137.

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Sargent, Jack, K. C. Linder, and A. I. Goodman, to The Scam Instrument Corp. Sequence indicating monitoring system. 3,309,678, 3–14–67, Cl. 340—172.5.

Sargent, Raymond W., to Simmonds Precision Products, Inc. Electroformed inner tube for tank unit. 3,299,492, 1–24–67, Cl. 29—155.5.

Sargent, Raymond W., to Simmonds Precision Products, Inc. Fluid displacement sensor device. 3,334,203, 8–1–67, Cl. 200—82.

Sargent, Ronald J., to Thetford Engineering Corp. Wedge gate valve assembly. 3,333,814, 8–1–67, Cl. 251—203.

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Sarka, Albert J., to Harris-Intertype Corp. Cutting method and apparatus. 3,347,119, 10–17–67, Cl. 83—38.

Sarka, Albert J., to Harris-Intertype Corp. Rotary dies. 3,355,969, 12–5–67, Cl. 76—107.

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Sarnecki, Wilhelm, A. Nuerrenbach, and W. Reif, to Badische Anilin-&Soda-Fabrik Aktiengesellschaft. Production of compounds of the axerophthylidene series. 3,356,700, 12–5–67, Cl. 260—410.9.

Sarnoff, Stanley J. Training cartridge. 3,318,021, 5–9–67, Cl. 35—17.

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Sarnoff, Stanley J., and J. W. Balenger; said Balenger assor. to said Sarnoff. Two compartment syringe with vapor seal between compartments. 3,326,215, 6–20–67, Cl. 128—218.

Sarnoff, Stanley J., and J. W. Balenger; said Balenger assor. to Sarnoff. Automatic hypodermic syringe. 3,330,279, 7–11–67, Cl. 128—218.

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Sarnoff, Stanley J., and J. W. Balenger, said Balenger assor. to said Sarnoff. Latched cartridge. 3,348,545, 10–24–67, Cl. 128—218.

Sarofeen, George M. J., to Titmus Optical Co., Inc. Lens holder for metallic blocking system. 3,353,307, 11–21–67, Cl. 51—216.

Sarracino, John B. Umbilical cord clamp. 3,315,679, 4–25–67, Cl. 128—346.

Sarrat, Pierre, and R. Vuillemey, to Commissariat a l'Energie Atomique. Evaporating and depolymerizing device. 3,314,400, 4–18–67, Cl. 122—33.

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Sarto, Jorma O., to Chrysler Corp. Hot start venting. 3,353,801, 11–21–67, Cl. 261—43.

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Sarvis, John W. Projectile. 3,345,948, 10–10–67, Cl. 102—87.

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Sasaki, Kanzo, to Shionogi & Co., Ltd. 5α-hydroxy-6β-azidopregnanes and 5α-hydroxy-6β-aminopregnanes. 3,345,363, 10–3–67, Cl. 260—239.55.

Sasaki, Kanzo, and J. Kawanami, to Shionogi & Co., Ltd. Oxazepine derivative of 12β-amino-α-pregnane-3β-.20β-diol. 3,300,487, 1–24–67, Cl. 260—239.55.

Sasaki, Minoru, T. Yamamoto, A. Ichikawa, T. Ohzeki, K. Senda, and S. Masunaka, to Mitsubishi Rayon Co., Ltd. Dyeable polypropylene fibers containing aluminum salts. 3,355,402, 11–28–67, Cl. 260—23.

Sasaki, Noburo, M. Mishima, and Y. Sugai, to Kabushiki-Kaisha Nikon Seikosho and Zaidankojin Sekitan Sogo Kenkyusho. Apparatus for spraying and ultrasonic washing of bottles. 3,302,655, 2–7–67, Cl. 134—79.

Sasaki, Rentaro, to Oki Electric Industry Co. Ltd. Type drum selector using sliding plates. 3,295,632, 1–3–67, Cl. 197—53.

Sasaki, Rentaro. Type drum printer with hammer mounted inside of and coaxial with drum. 3,326,346, 6–20–67, Cl. 197—53.

Sasaki, Rentaro. Shifting device for teleprinters. 3,337,019, 8–22–67, Cl. 197—18.

Sasaki, Ryoichi, and M. Kurosawa, to Hitachi, Ltd. Low alloyed heat resisting steel. 3,331,682, 7–18–67, Cl. 75—126.

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Umeda, Yasuo, Sasaki, Kubo, Kitami, and Sasahara.

Sasaki, Toshio: *See*—
Sato, Toru, Katsuyama, and Sasaki. 3,318,989.

Sasaki, Toshiyuki, and Y. Takakura, to Hitachi, Ltd. Contactless ignition devices. 3,297,009, 1–10–67, Cl. 123—148. 3,309,815.

Sasaki, Yoichiro. Refuse destruction system and furnace therefor. 3,330,230. 7–11–67, Cl. 110—17.

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Nitta, Gentaro, Sasaki, and Takahashi. 3,358,436.

Sasaki, Yozo, and S. Ishihara, to Nippon Electric Co. Ltd. Water collecting apparatus having a synthetic resin roof treated with an oxidizing agent. 3,336,206, 8–15–67, Cl. 202—234.

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Sasakura, Makoto, to Onoda Cement Co., Ltd. Method for the manufacture of alkali metal orthophosphates. 3,328,118, 6–27–67, Cl. 23—107.

Sasakura, Makoto, and K. Hirayama. Method for the preparation of fluorine derivatives of halogenated hydrocarbons. 3,342,881, 9–19–67, Cl. 260—653.7.

Sasakura, Toshisuke: *See*—
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Saslaw, Irving M., and J. J. Brady, to General Foods Corp. Powdered fat compositions and process for manufacture. 3,295,986, 1–3–67, Cl. 99—123.

Saslow, Seymour, and J. P. Knauth, to Espey Mfg. & Electronics Corp. Brushless D-C motor. 3,341,724, 9–12–67, Cl. 310—68.

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Halpern, Alfred, and Sasmor. 3,326,760.

Sasmor, Ernest J., to The Purdue Frederick Co. Galacturonic acid salts useful in the treatment of diarrheal and dermatologic diseases. 3,316,242, 4–25–67, Cl. 260—209.5.

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Sass, Hans-Eckhard, and E. Theunissen, to Bolkow Gesellschaft mit beschrankter Haftung. Method and apparatus for determining the deviation angle of an axis intended to be aligned with a celestial body. 3,339,452, 9–5–67, Cl. 88—14.

Sassak, Frank. Tube bending machine. 3,306,093, 2–28–67, Cl. 72—389.

Sassak, Frank. Flexible mandril for pipe or tube bending. 3,315,516, 4–25–67, Cl. 72—466.

Sassak, Frank. Tube bending machine and mandrel assembly. 3,344,639, 10–3–67, Cl. 72—150.

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Lewis, Benjamin A., Sassiver, and Shepherd. 3,341,532.
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Lewis, Benjamin A., Sassiver, and Shepherd. 3,345,368.

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Sassiver, Martin L., B. A. Lewis, and R. G. Shepherd, to American Cyanamid Co. Novel substituted 7-acetylamino cephalosporanic acids. 3,345,369, 10–3–67, Cl. 260—243.

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Sato, Hideo: *See*—
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Sato, Ichijiro: *See*—
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Sato, Isao. Method of manufacturing paper pipe. 3,354,800, 11–28–67, Cl. 93—94.

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Sato, Kazuo, T. Karasawa, T. Fukazawa, E. Sekiya, and T. Sato, to Taiyo Yuden Co., Ltd. Tubular electric element manufacturing apparatus. 3,317,701, 5–2–67, Cl. 219—56.

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Sato, Noriaki: *See*—
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Sato, Norio, to Nippon Electric Co. Ltd. Two-cavity klystron oscillator using an auxiliary tuning resonator to adjust the resonant frequency of the cavities. 3,299,312, 1–17–67, Cl. 315—5.44.

Sato, Shichiro. Plier-type tool having cam and slot actuation means. 3,308,692, 3–14–67, Cl. 81—342.

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Sato, Takeo. Oil indicator-magnetic filter apparatus. 3,356,216 12–5–67. Cl 210—94.

Sato, Tetsuo, and H. Oba, to Tokyo Denki Kabushiki Kaisha. Apparatus for calculating complements in calculating machines. 3,315,885, 4–25–67, Cl. 235—60.

Sato, Tokuhige: *See*—
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Sato, Toru, S. Katsuyama, and T. Sasaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for melt-spinning of filamentary articles. 3,318,989, 5–9–67, Cl. 264—176.

Sato, Toshio. Solid electrolytic capacitor with anodized aluminum electrode and method of making. 3,345,543, 10–3–67, Cl. 317—230.

Sato, Toshiyuki, and S. Kono, to Elmo Co., Ltd. Selective film drive for film having diverse characteristics. 3,353,731, 11–21–67, Cl. 226—54.

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Satterlee, Charles H. Water conditioning process and apparatus. 3,334,044, 8–1–67, Cl. 210—25.

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Sattelberg, Stanley E., and Y. A. Selcukoglu, to Chicago Bridge & Iron Co. Internal suspended insulating ceiling for storage tanks. 3,352,443, 11–14–67, Cl. 220—9.

Sattler, Frank A., to Westinghouse Electric Corp. Amine-modified epoxy resins blended with a blocked polyisocyanate. 3,321,548, 5–23–67, Cl. 260—829.

Sattler, Frank A., to Westinghouse Electric Corp. Blended polyester wire enamels and conductors insulated therewith. 3,345,429, 10–3–67, Cl. 260—860.

Sattler, Robert L., to La Salle Machine Tool, Inc. Mechanical coordinating device. 3,345,747, 10–10–67, Cl. 33—1.

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Sauber, Charles J. Apparatus for limited access and withdrawal of discreet objects from containers. 3,325,052, 6–13–67, Cl. 221—256.

Sauber, James W., to Hewlett-Packard Co. Recorder servo system. 3,340,536, 9–5–67, Cl. 346—32.

Sauberlich, Gerhard P. Apparatus and method for geodetic-surveying system. 3,315,257, 4–18–67, Cl. 343—12.

Saubestre, Edward B., and L. J. Durney, to Enthone, Inc. Pyrophosphate copper strike zincating solution. 3,329,522, 7–4–67, Cl. 117—50.

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Saucy, Gabriel, to Hoffmann-La Roche, Inc. Olefinic ketones and process for the manufacture thereof. 3,330,867, 7–11–67, Cl. 260—594.

Saucy, Gabriel, F. A. Smith, and L. H. Sternbach, to Hoffmann-La Roche Inc. Cyanobenzophenones. 3,329,701, 7–4–67, Cl. 260—465.

Saudicoeur, Louis J., to Lucien Ferraz & Cie. Cartridge fuses with non-porous arc-quenching material. 3,317,689, 5–2–67, Cl. 200—120.

Sauer, Charles A., to The Dow Chemical Co. Filter apparatus. 3,337,054, 8–22–67, Cl. 210—266.

Sauer, Charles D., E. H. Bowler, and A. B. Forward, to Canadian Patents and Development Ltd. Bathythermograph data records production. 3,315,562, 4–25–67, Cl. 88—24.

Sauer, Charles W., to United States of America, Army. Process of preparing plastic coated high explosives particles and articles. 3,348,986, 10–24–67, Cl. 149—11.

Sauer, Edgar, W. Gunther, and H. Koppen, to Zeiss Ikon Aktiengesellschaft. Photographic camera with automatic flash exposure mechanism. 3,309,977, 3–21–67, Cl. 95—45.

Sauer, Fred W. Ventilating device for fabric bodies. 3,345,932, 10–10–67, Cl. 98—83.

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Sauer, Harold A., to Bell Telephone Laboratories, Inc. Housing and adjustments for an electrical standard network. 3,314,003, 4–11–67, Cl. 323—75.

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Saueressig, Hans, to Gebr. Saueressig K.G. Maschinenfabrik. Self-centering pressure roller. 3,295,188, 1–3–67, Cl. 29—113.

Sauerland, Franz L., to Clevite Corp. Electric wave filter. 3,349,347, 10–24–67. Cl. 333—72.

Sauerwein, Kurt, and H. Goedecke; said Goedecke assor. to said Sauerwein. Gamma ray gun having a two-part shield providing a disc-shaped exposure gap. 3,316,406, 4–25–67, Cl. 250—106.

Sauka, Joseph J. Portable chain hoist. 3,313,521, 4–11–67, Cl. 254—4.

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Saulnier, Theodore A., to Radio Corp. of America. Method of metallizing luminescent screens. 3,317,337. 5–2–67, Cl. 117—33.5.

Sauls, Clyde. Lock for sectional scaffolding. 3,300,236, 1–24–67, Cl. 287—53.5.

Saums, Harry L., and W. W. Pendleton, to Anaconda Wire and Cable Co. Electrical apparatus, insulating composition therefor and method of making the same. 3,343,984, 9–26–67, Cl. 117—218.

Saun, Kennedy Van Mfg. & Eng. Corp.: *See*—
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Saunders, Alan C. A., to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,310,474, 3–21–67, Cl. 176—76.

Saunders, Alan C. A., to United Kingdom Atomic Energy Authority. Nuclear reactor fuel element assemblies. 3,356,582, 12–5–67. Cl. 176—41.

Saunders, Alfred C., and J. F. Grant, to Ferro Corp. Refractory body and method of making same. 3,329,514, 7–4–67, Cl. 106—56.

Saunders, Alfred P., to Wildt Mellor Bromley Ltd. Patterning mechanism for circular knitting machines. 3,344,620, 10–3–67, Cl. 66—156.

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Saunders, Charles E., Jr., to American Machine & Foundry Co. Manipulator having motorized grasper and method. 3,344,936. 10–3–67. Cl. 214—1.

Saunders, Charles W., to The United Steel Cos. Ltd. Dummy bar for continuously casting metals. 3,305,899, 2–28–67, Cl. 22—57.2.

Saunders, Charles W., to The United Steel Cos. Ltd. Machines for continuously casting metal. 3,347,308, 10–17–67, Cl. 164—282.

Saunders, Charles W., and A. Thalmann, to Concast A.G. Continuous casting machine. 3,314,115, 4–18–67, Cl. 22—57.2.

Saunders, Charles W. T., to Westinghouse Brake and Signal Co., Ltd. Means for moving a member linearly. 3,313,178, 4-11-67, Cl. 74—626.

Saunders, Denis B., to Girling Ltd. One-way valve. 3,314,446, 4-18-67, Cl. 137—516.15.

Saunders, Elerington, and T. Schiff, to Monsanto Co. Dentifrice compositions comprising dicalcium orthophosphate and sodium monofluorophosphate. 3,308,029, 3-7-67, Cl. 167—93.

Saunders, Elerington, and T. Schiff, to Monsanto Co. Method of making a dihydrate and anhydrous mixture of dicalcium orthophosphate dentifrice abrasive. 3,334,979, 8-8-67, Cl. 51—307.

Saunders, Elerington, and F. Wright, to Monsanto Co. Calcining method for conversion of alkaline earth orthophosphates to the pyrophosphate form. 3,357,790, 12-12-67, Cl. 23—108.

Saunders, Frank L., to The Dow Chemical Co. Method of making articles of crystalline polystyrene containing lower polymers of alkenyl aromatic monomers. 3,303,159, 2-7-67, Cl. 260—33.6.

Saunders, Frank L., to The Dow Chemical Co. Laminated foam polymer and method of manufacture. 3,337,390, 8-22-67, Cl. 161—160.

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Saunders, Fred Q., to Richmond Engineering Co., Inc. Water heating apparatus. 3,332,478, 7-25-67, Cl. 165—76.

Saunders, Harry C., to Universal Oil Products Co. Method for prolonging the odor of perfumed materials with trimethylnorbornylalkylcyclohexanones. 3,317,397, 5-2-67, Cl. 167—94.

Saunders, Henry A., to Persons-Majestic Mfg. Co. Unicycle stand construction. 3,348,697, 10-24-67, Cl. 211—22.

Saunders, James H., and S. Steingiser, to Mobay Chemical Co. Method for preparing a polyurethane containing 0.2 to 5% polyolefin. 3,351,676, 11-7-67, Cl. 260—859.

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Saunders, Orson V., and L. D. Benasutti, to General Motors Corp. Keeping insulation dry. 3,310,957, 3-28-67, Cl. 62—273.

Saunders, Orson V., and P. E. Kronenberger, to General Motors Corp. Refrigerator with removable wall. 3,320,764, 5-23-67, Cl. 62—419.

Saunders, Percy L. Can top with opener and spoon. 3,334,778, 8-8-67, Cl. 220—54.

Saunders, Raymond A., to United States of America, Navy. Variable space liquid microcell. 3,332,316, 7-25-67, Cl. 88—14.

Saunders, Robert M. Snap in fitting. 3,298,136, 1-17-67, Cl. 49—425.

Saunders, Teddy G. Multivibrator having astable and bistable operating modes. 3,345,583, 10-3-67, Cl. 331—113.

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Picklesimer, Lewellyn G., and Saunders. 3,305,551.

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Saunders, Walter S. Means for reducing lateral wind resistance and consequent body sway and yaw in vehicles. 3,348,873. 10-24-67, Cl. 296—1.

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Saunoris, James R., and E. G. Norenberg. Row making device. 3,332,376. 7-25-67, Cl. 111—1.

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Saurwein, Albert G., to Union Carbide Corp. Method of making open-ended cathodes. 3,329,753, 7-4-67, Cl. 264—120.

Sausele, George J. H., to American Type Founders Co., Inc. Photographic composing machines. 3,296,948, 1-10-67, Cl. 95—4.5

Sausele, George J. H., to American Type Founders Co., Inc. Typesetter system and apparatus. 3,333,668, 8-1-67, Cl. 197—20.

Sausen, George N., to E. I. du Pont de Nemours, and Co. Bis (thiorolmino) compounds. 3,337,605, 8-22-67, Cl. 260—465.5.

Saussele, Günter, to Siemens-Schuckertwerke Aktiengesellschaft. Circuit for direct current miniature motors without mechanical commutators. 3,304,481, 2-14-67, Cl. 318—138.

Saussele, Gunter, and K. Menzel, to Siemens-Schuckertwerke Aktiengesellschaft. Direct-current motor with permanent-magnet rotor and sequentially energized stator windings. 3,329,852, 7-4-67, Cl. 318—138.

Sauter, Bobbie S., to Standard Pressed Steel Co. Driving gun. 3,331,269, 7-18-67, Cl. 81—57.

Sauter, Karl: *See*—
Schindler, Gottfried, and Sauter. 3,301,168.

Sautray, Roger: *See*—
Auchapt, Pierre, Bouzou, and Sautray. 3,327,763.

Sauvan, Jacques L., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Information-processing system. 3,296,593, 1-3-67, Cl. 340—172.5.

Sauve, Charles, and P. David, to Commissariat a l'Energie Atomique and Societe Alcatel. Process for hot machining of metals. 3,334,213, 8-1-67, Cl. 219—154.

Sauzedde, Marjorie P.: *See*—
Ordorica, Miguel A., Sauzedde, R. E. and M. P. 3,295,625.

Sauzedde, Rene E.: *See*—
Ordorica, Miguel A., and Sauzedde. 3,295,625.

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Savage, Albert B., to The Dow Chemical Co. Acrylic amide polymers having improved water dispersibility. 3,350,338. 10-31-67, Cl. 260—29.6.

Savage, Albert B., and J. C. Aldrich, to The Dow Chemical Co. Stabilized reconstituted tobacco foil. 3,310,057, 3-21-67, Cl. 131—15.

Savage, Albert B., and J. C. Aldrich, to The Dow Chemical Co. Process for the manufacture of reconstituted tobacco foil. 3,310,058, 3-21-67, Cl. 131—17.

Savage, Albert B., and J. C. Aldrich, to The Dow Chemical Co. Surface-sulfonated cellulose ethers having improved water dispersibility. 3,341,516, 9-12-67, Cl. 260—232.

Savage, Albert B., and J. C. Aldrich, to The Dow Chemical Co. Ethylcellulose latex polish composition. 3,353,971. 11-21-67, Cl. 106—5.

Savage, Elton S., to Door-Oliver Inc. Process and apparatus for the clarification treatment of solids-carrying liquids. 3,349,030. 10-24-67, Cl. 210—46.

Savage, Everett A. Vehicle license plate holder and locking means. 3,340,639, 9-12-67, Cl. 40—209.

Savage, Everett A. Vehicle license plate holder and locking means. 3,340,640, 9-12-67, Cl. 40—209.

Savage, George M., to The Upjohn Co. Petroleum fuels containing antibiotic combinations. 9,300,287, 1-24-67, Cl. 44—50.

Savage, George M., and R. E. Bradbury, Jr., to The Offshore Co. Marine drilling apparatus. 3,354,951, 11-28-67, Cl. 166—.6.

Savage, Harry A., 50% to D. W. Barlow. Pumping system for slurry and other solutions. 3,298,319, 1-17-67, Cl. 103—150.

Savage, Harry A., 50% to D. W. Barlow. Two way flow anti-siphon valve assembly. 3,298,391, 1-17-67, Cl. 137—493.

Savage, Jack P., to Lever Bros. Co. Dehydration of high maturity pulses containing added polyhydric alcohol. 3,337,349 8-22-67, Cl. 99—204.

Savage, John W.: *See*—
Cromp, Theodore Q., and Savage. 3,350,098.

Savage, Leslie H. W.: *See*—
Johnson, Horace, and Savage. 3,341,635.

Savage, Phillip D., to Hall Ski-Lift Co., Inc. Pawl holdout for one-way brake. 3,319,740, 5-16-67, Cl. 188—82.4.

Savage, Preston R., and G. A. Brooks, to Monsanto Co. Method and apparatus for testing floor covering. 3,323,349, 6-6-67, Cl. 73—7.

Savage, Reese L., Jr.: *See*—
Starr, Anthony J., and Savage. 3,308,981.

Savage, Ronald J.: *See*—
Alberani, Julius, and Savage. 3,327,757.

Savage, William E., III, to Libbey-Owens-Ford Glass Co. Method of finishing glass. 3,334,452, 8-8-67, Cl. 51—283.

Savageau, Richard J.: *See*—
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Savard, Guy, and R. Lee, to L'Air Liquide, Societe Anonyme Pour l'etude et l'Exploitation des Procedes Georges Claude. Method for freezing foodstuffs and biological products. 3,295,220, 1-3-67, Cl. 34—5.

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Savastano, Dominic. Split sleeve bearing puller. 3,340,593, 9-12-67, Cl. 29—262.

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Alheim, Robert J., and Savides. 3,344,113.

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Savin, Cornelius, A. G. Vorwald, and C. R. Vagts, to Antran Corp. Device and method for demonstrating an angle inscribed in a semi-circle. 3,340,624, 9-12-67, Cl. 35—34.

Savin, James W.: *See*—
Johnson, James W., and Savin. 3,303,129.

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Savina, Anthony R., and D. D. Ritson, to American Cyanamid Co. Paper carrying non-blocking flexible grease-proof vinyl polymer coating. 3,316,123, 4-25-67, Cl. 117—155.

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Savins, Joseph G., and D. B. Cox, to Mobil Oil Corp. Method of transporting mineral oils. 3,295,542, 1-3-67, Cl. 137—13.

Savins, Joseph S., to Mobil Oil Corp. Use of viscoelastic liquids for cementing wells in subterranean formations. 3,299,952, 1-24-67, Cl. 166—22.

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Savoca, Salvatore, and C. Kuljanich, to Monument Processing Co. Mask for sandblasting indicia in stone and method for making same. 3,295,263, 1-3-67, Cl. 51—262.

Savole, Hilbert J., Jr. Diving helmet. 3,353,534, 11-21-67, Cl. 128—142.3.

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Savory, Frederick R., to Steel Construction & Engineering Co. Press brakes. 3,324,704, 6-13-67, Cl. 72—453.

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Sawa, Hiroomi, K. Takahashi, K. Kobayashi, and S. Kasu, to Dainippon Ink and Chemicals, Inc. Electrostatic printing apparatus with inking means between electrodes. 3,299,806, 1-24-67, Cl. 101—114.

Sawa, Natsuo, and S. Okamura, to Toho Rayon Kabushiki Kaisha. Process for the preparation of N-vinyl-imidazole compounds. 3,337,577, 8-22-67, Cl. 260—309.

Sawa, Yoshiro, and S. Maeda, to Shionogi & Co., Ltd. 6-alkylmorphinan derivatives and production thereof. 3,300,500, 1-24-67, Cl. 260—285.

Sawada, Fred H., to United States of America, Atomic Energy Commission. High speed discriminator with a wide dynamic range having a wide ambient temperature range. 3,325,656, 6-13-67, Cl. 307—88.5.

Sawada, Jiro, T. Misaki, M. Yamagishi, and T. Kitahara, to Taisho Pharmaceutical Co., Ltd. Process of treating milk with muramidase. 3,338,719, 8-29-67, Cl. 99—54.

Sawada, Kiyoshi, to Toshiba Machine Co., Ltd. Machine tools. 3,296,901, 1-10-67, Cl. 82—2.

Sawada, Kiyoshi, to Toshiba Machine Co. Ltd. Apparatus for balancing the tool carriage of a machine tool. 3,327,571, 6-27-67, Cl. 77—36.

Sawada, Ryoka: *See*—
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Sawada, Takao: *See*—
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Sawada, Yasuhiro, and Z. Ayuha, to Yawata Iron & Steel Co., Ltd. Method and device for measuring pressure of fluid in vessel. 3,295,374, 1-3-67, Cl. 73—395.

Sawafuji Electric Co., Ltd., and Western Trading Co. Ltd.: *See*—
Omura, Morikazu, and Okuda. 3,355,676.

Sawazaki, Norikazu, to Tokyo Shibawa Electric Co., Ltd. Magnetic recording system. 3,297,268, 1-10-67, Cl. 242—55.14.

Sawazaki, Norikazu, to Tokyo Shibaura Electric Co., Ltd. Picture signal receiving system. 3,308,473, 3-7-67, Cl. 346—74.

Sawazaki, Norikazu, T. Honma, and M. Yagi, to Tokyo Shibaura Electric Co., Ltd. Television telephone system utilizing one telephone line. 3,352,966, 11-14-67, Cl. 178—6.

Sawdey, George W., to Eastman Kodak Co. Ultraviolet absorbers. 3,314,794, 4-18-67, Cl. 96—84.

Sawdey, Marshall D., to Clark Equipment Co. Articulated load handling attachment. 3,342,359, 9-19-67, Cl. 214—652.

Sawhill, Duane L., to Olin Mathieson Chemical Corp. Process for providing sodium triphosphate hexahydrate. 3,325,246, 6-13-67, Cl. 23—107.

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Sawkiw, Wasyl, to International Playtex Corp. Nylon bristle resembling natural bristle. 3,325,845, 6-20-67, Cl. 15—159.

Sawle, David R.: *See*—
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Sawle, David R., to MB Associates. Miniature rocket defense system. 3,348,452. 10-24-67, Cl. 89—1.807.

Sawyer, Albert K., to M & T Chemicals Inc. Method of preparing novel organotin compounds. 3,322,801, 5-30-67, Cl. 260—429.7.

Sawyer, Albert K., to M & T Chemicals Inc. Hexaorganotritin compounds and the preparation thereof. 3,347,889, 10-17-67, Cl. 260—429.7.

Sawyer, Andrew H., to H. H. Robertson Co. Dual duct air condltioning systems. 3,356,134, 12-5-67, Cl. 165—49.

Sawyer, Arthur W.: *See*—
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Sawyer, Bruce A., to Litton Systems, Inc. Density controlled floated gyro. 3,350,947, 11-7-67, Cl. 74—5.41.

Sawyer, Cecil W. Fishhook dislodging and extracting implement. 3,334,437, 8-8-67, Cl. 43—53.5.

Sawyer, David E., to Sperry Rand Corp. Wide band semiconductor device having hyper-abrupt collector junction. 3,334,280. 8-1-67, Cl. 317—234.

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Sawyer, Harold T., to Vernon D. Beehler. Sonic surface cleaner. 3,357,033, 12-12-67, Cl. 15—98.

Sawyer, James G., to General Turbine Corp. Air car. 3,317,161, 5-2-67, Cl. 244—36.

Sawyer, Webster M., Jr., and W. C. Simpson, to Shell Oil Co. Emulsion compositions and their preparation. 3,328,326, 6-27-67, Cl. 260—27.

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Sawyers, James D., and O. J. Dorsey. Cattle guard. 3,322,399, 5-30-67. Cl. 256—17.

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Sax, Karl J., R. H. Blank, C. E. Holmlund, and R. H. Evans, Jr., to American Cyanamid Co. Method of preparing 16-oxygenated derivatives of estr-4-en-3-one. 3,329,579, 7-4-67, Cl. 195—51.

Saxby, Richard M., to Holley Carburetor Co. Automatic choke carburetor. 3,332,671, 7-25-67, Cl. 261—39.

Saxe, Ludvig, and I. Krogstad, to A/S Pusnes Mek. Verksted. Semi-automatic warping and mooring arrangement. 3,300,187, 1-24-67, Cl. 254—172.

Saxl, Erwin J., to Tensitron, Inc. Tension meter. 3,344,664, 10-3-67, Cl. 73—144.

Saxl, Erwin J. Device and method for measuring gravitational and other forces. 3,357,253, 12-12-67, Cl. 73—382.

Saxon, Arthur F., to Blaw-Knox Co. Apparatus for the heating of bulk material and recovery of vaporizable product therefrom. 3,359,649, 12-26-67, Cl. 34—173.

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Saxton, Harold L. Radar indication system. 3,309,702, 3-14-67, Cl. 343—11.

Saxton, Harold L., and M. S. Wilson. Underwater direction indicator. 3,296,578, 1-3-67, Cl. 340—3.

Saxton, Harold L., and M. S. Wilson. Wedge scan for echo locating system. 3,307,141, 2-28-67, Cl. 340—3.

Saxton, John W., to The Standard Engineering Co. Clutch device. 3,320,772, 5-23-67, Cl. 64—30.

Say, Peter A., to W. R. Grace & Co. Method of forming a flexible seal between telescopically engageable pipe sections. 3,313,669. 4-11-67, Cl. 156—294.

Sayad, Richard S., and A. D. McMahan, to The Dow Chemical Co. Method and composition for reducing friction on conveyors. 3,336,225. 8-15-67, Cl. 252—34.7.

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Von E. Doering, William, Sayigh, and Tilley. 3,296,306.
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Sayigh, Adnan A. R., and H. Ulrich, to The Upjohn Co. Process for the preparation of carbodiimides. 3,301,895, 1–31–67, Cl. 260—551.
Sayigh, Adnan A. R., and J. N. Tilley, to The Upjohn Co. Process for the preparation of organic isocyanates. 3,311,654, 3–28–67, Cl. 260—465.
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Saylor, Lee H., to Sealed Power Corp. Narrow width piston ring and expander-spacer. 3,346,252, 10–10–67, Cl. 267—1.5.
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Sayre, Robert K., to United States of America, Navy. Once-through steam generator with means to provide saturated feed water. 3,356,135 12–5–67, Cl. 165—159.
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Scala, Eugene L., Jr., to Ford Motor Co. Temperature compensated accelerating pump. 3,350,071, 10–31–67, Cl. 261—34.
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Scanlan, Warren F., to Shock-Proof Electronics, Inc. Safety device for preventing electric shock by quickly de-energizing a malfunctioning electric circuit. 3,319,123, 5–9–67, Cl. 317—18.
Scanley, Clyde S., to American Cyanamid Co. Water-insolubilized floor wax composition containing alkali metal aluminate and method for preparing same. 3,328,328, 6–27–67, Cl. 260—28.5.
Scanley, Clyde S., to American Cyanamid Co. Fluoroalkyltrisulfonylmethanes. 3,333,007, 7–25–67, Cl. 260—607.
Scanley, Clyde S., to American Cyanamid Co. Trisulfonylmethanes. 3,337,636, 8–22–67, Cl. 260—607.
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Scanlon, John J., Jr., to United States of America, Army. Automatic rifle for firing caseless ammunition. 3,345,770, 10–10–67, Cl. 42—18.
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Scantlin, John R., E. J. Drummond, M. T. Gray, and R. P. Niquette, to Scantlin Electronics, Inc. Market quotation apparatus. 3,296,597, 1–3–67, Cl. 340—172.5.
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Scaramucci, Domer. Swing-type check valve. 3,295,550, 1–3–67, Cl. 137—527.4
Scaramucci, Domer. Ball valve and unstressed synthetic resin seals therefor. 3,339,885, 9–5–67, Cl. 251—172.
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Scaramucci, Domer. Valve and seal. 3,347,517, 10–17–67, Cl. 251—315.
Scaramucci, Domer. Valve seat with lip like seal. 3,356,333, 12–5–67, Cl. 251—172.
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Schindling, Josef, to Metallgesellschaft Aktiengesellschaft. Multi-cell centrifugal dust separator. 3,350,852, 11–7–67, Cl. 55—348.
Schink, Norbert, to Siemens-Schuckertwerke Aktiengesellschaft. Jogging device in apparatus for treating semiconductor wafers in gas. 3,295,492, 1–3–67, Cl. 118—48.
Schink, Norbert, to Siemens-Schuckertwerke Aktiengesellschaft. Method for surface treatment of semiconductor elements. 3,298,875, 1–17–67, Cl. 148—6.3.
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Bedocs, Michael F., and Schink. 3,334,198.
Schaad, William J., and Schink. 3,299,227.
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Schink, William N., to Indak Mfg. Corp. Electrical switch with housing having internal ground contact. 3,316,364, 4–25–67, Cl. 200—16.

Schink, William N., to Indak Mfg. Corp. Contact construction for switches or the like. 3,329,790, 7–4–67, Cl. 200—166.

Schinner, Thomas J., to The Cincinnati Time Recorder Co. Embossed card reading device. 3,299,298, 1–17–67, Cl. 307—113.

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Schinnerer, Thomas, H. Umbach, E. Frobel (deceased by, Elise and Ernst G. Frobel, heirs), to Dynamit Nobel Aktiengesellschaft. Cartridge case. 3,352,239, 11–14–67, Cl. 102—43.

Schinske, William G., to Holub Industries, Inc. Fish tape winder. 3,355,123, 11–28–67, Cl. 242—84.8.

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Schinzel, Erich, R. Austrup, and K. H. Lebkucher, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Bis - (β-hydroxyethylsulfone-phenylamino-triazine) stilbenes. 3,318,874, 5–9–67, Cl. 260—240.

Schinzel, Erich, H. Frischkorn, and H. Behrenbruch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Certain dibenzoxazalynaphthalene compounds. 3,336,330, 8–15–67, Cl. 260—307.

Schinzel, Walter: *See*—
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Schiphorst, Frans J. M. M., to Stamicarbon N.V. Plastic crate. 3,325,039, 6–13–67, Cl. 220—21.

Schipper, Edgar S., to Shulton, Inc. 2-pyridyl-2,3-dihydro-4(1H)-quinazolinones and derivatives thereof. 3,316,269, 4–25–67, Cl. 260—256.4.

Schipper, Edgar S., to Shulton, Inc. 3-β-(4-pyridyl)ethyl-2,3-dihydro-4(1H)-quinazolinones. 3,322,766, 5–30–67, Cl. 260—256.4

Schipper, Pieter W., to Atwater-General Corp. Automatic humidifier with periodic water replacement. 3,332,672, 7–25–67, Cl. 261—129.

Schipper, Pieter W. Float-actuated level control means with quick closing and opening characteristics in a non-modulated system. 3,335,747, 8–15–67, Cl. 137—414.

Schippers, Heinz, to Barmer Maschinenfabrik Aktienges. Apparatus for spinning filaments of synthetic thermoplastic fiber-forming polymers. 2,295,160, 1–3–67, Cl. 18—8.

Schippers, Heinz, to Barmer Maschinenfabrik Aktiengesellschaft. Extruder for processing solid thermoplastics. 3,327,347, 6–27–67, Cl. 18—12.

Schippers, Heinz, to Barmer Maschinenfabrik Aktiengesellschaft. Process for the formation of dense winding bodies. 3,329,360, 7–4–67, Cl. 242—18.

Schippers, Heinz, and W. Niemeyer, to Barmer Maschinenfabrik Aktiengesellschaft Wuppertal-Oberbarman. Device for granulating extruded polymers. 3,349,433, 10–31–67, Cl. 18—12.

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Schirmer, Henry G., to W. R. Grace & Co. Apparatus for corona treatment of polymer film including a flexible metal foil electrode. 3,346,480, 10–10–67, Cl. 204—312.

Schirmer, Henry G., to W. R. Grace & Co. Perforating film by electrical discharge. 3,348,022, 10–17–67, Cl. 219—384.

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Schirtzinger, Joseph F., to Air Logistics Corp. Structure for transport of materials through water. 3,296,994, 1–10–67, Cl. 114—74.

Schirtzinger, Joseph F., to Air Logistics Corp. Expansible and self-folding container. 3,324,917, 6–13–67, Cl. 150—1.

Schischkow, Konstantin F., ⅓ to A. F. Kronman, ⅓ to H. Stern, and ⅓ to L. Alexander. Apparatus for moistening and cutting individual units from a sheet. 3,323,487, 6–6–67, Cl. 118—41.

Schisla, Robert M., and V. R. Gaertner, to Monsanto Co. Controlling bacteria with alkyleneglycol carbonate esters of 2,2'-thiobis-(dischlorophenols). 3,300,376, 1–24–67, Cl. 167—30.

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Laegreid, Nils, and Moseson. 3,344,054.
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Schjolin, Hans O., and L. N. Kern, to General Motors Corp. Transmission. 3,359,832, 12–26–67, Cl. 74—781.

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Schlabach, Leland A., and G. W. Nagel, to Westinghouse Electric Corp. Power inverting network utilizing thyratronic switches controlled by a saturable transformer. 3,305,757, 2–21–67, Cl. 321—16.

Schlabach, Leland A., and G. R. Loos, to Westinghouse Electric Corp. Speed indicating dynamoelectric machine and tachometer generator structure therefor. 3,339,095, 8–29–67, Cl. 310—66.

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Schlack, Paul, H. Jensen, and G. Lohaus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of polyamides from α,α-dialkyl substituted β-lactams. 3,342,783, 9–19–67, Cl. 260—78.

Schladitz, Hermann. Self-lubricating structure. 3,343,953, 9–26–67, Cl. 75—206.

Schlaf, Stanley O. Merchadise dispensing machine module including a helical article discharge means. 3,355,064, 11–28–67, Cl. 221—14.

Schlafly, Hubert J., to Tele Pro Industries Inc. Data recorder, responder and teaching system. 3,299,534, 1–24–67, Cl. 35—9.

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Schlage, Ernest L., and H. K. Graumann, to Schlage Lock Co. Door knob trim. 3,295,879, 1–3–67, Cl. 292—357.

Schlage, Ernest L., and R. E. Neary, to Schlage Lock Co. Swinging bolt door latch. 3,359,027, 12–19–67, Cl. 292—222.

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Schlangen, Donald M. Tree lighting apparatus. 3,321,730, 5–23–67, Cl. 339—12.

Schlapfer, Hans, and J. Bindler, to J. R. Geigy A-G. Imidazole (1,2)-s-triazines. 3,309,366, 3–14–67, Cl. 260—249.6.

Schlapman, William J., to Colt Mfg. Co., Inc. Battery holddown clamp. 3,333,810, 8–1–67, Cl. 248—361.

Schlapman, William J., and E. E. Croisant, to Colt Mfg. Co., Inc. Front axle and PTO shaft. 3,349,631, 10–31–67, Cl. 74—15.63.

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Schlapp, Georg, to Nassovia Werkzeugmaschinenfabrik G.m.b.H. Tracing mechanism for duplicating milling machines. 3,353,449, 11–21–67, Cl. 90—62.

Schlapp, Georg, and P. Kohl, to Nassovia Werkzeugmaschinenfabrik G.m.b.H. Tracing mechanism for duplicating milling machines. 3,358,562, 12–19–67, Cl. 90—62.

Schlapp, Werner, to Ernst Leitz, G.m.b.H. Objective with resilient diaphragm. 3,298,295, 1–17–67, Cl. 95—64.

Schlass, Jerome J. J., and F. W. Meyer, to Kaiser Aluminum & Chemical Corp. Form supporting girders. 3,330,086, 7–11–67, Cl. 52—632.

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Schlatter, Walter J., to Sperry Rand Corp. Low distortion magnetic recorder. 3,345,468, 10–3–67, Cl. 179—100.2.

Schlecht, Frederick J., ½ each to H. H. Brown Shoe Co., and George H. Rosen Shoe Mfg. Co., Inc. Stitched shoe with inner lining. 3,350,795, 11–7–67, Cl. 36—2.5.

Schlecht, Raymond J. Boat ladder. 3,305,045, 2–21–67, Cl. 182—97.

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Schlechter, Alfred, to Firma E. Wolff Maschinenfabrik u. Eisengiesserei. Drag-line winch. 3,352,540, 11–14–67, Cl. 254—185.

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Schleer, Hermann O., and K. Bornschein, Said Bornschein, assignor to said Schleer. Process and apparatus for soldering in the presence of hydrogen gas. 3,356,830, 12–5–67, Cl. 219—373.

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Schlegel, Karl F., Jr., to Kay-El Sales Corp. Toothbrush. 3,354,491, 11–28–67, Cl. 15—167.

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Schlegel, Werner. Process for pressure-forming metallic bodies. 3,349,472, 10–31–67, Cl. 29—528.

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Schleich, Fritz, to United Aircraft Corp. Arrangement for welding, cuting or working materials by means of an electron beam. 3,308,263, 3–7–67, Cl. 219—121.

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Schleicher, Hans-Walter: *See*—
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Schleicher, Hans-Walter, to Metallgesellschaft Aktiengesellschaft. Apparatus for alkali chloride electrolysis having a corrosion resistant anode. 3,297,560, 1–10–67, Cl. 204—250.

Schleicher, Harold E., to The Arrow-Hart & Hegeman Electric Co. Tool handle switch. 3,312,801, 4–4–67, Cl. 200—68.

Schleicher, Harold E., to The Arrow-Hart & Hegeman Electric Co. Silent electric switch. 3,354,275, 11–21–67, Cl. 200—68.

Schleicher, Harold E., to The Arrow-Hart & Hegeman Electric Co. Fused puller switch with fuses which can be removed only when the fused section is first removed. 3,358,100, 12–12–67, Cl. 200—114.

Schleimer, Bernhard, to Chemische Werke Huls A.G. Production of low molecular weight liquid polymers of 1,3-diolefins. 3,312,752, 4–4–67, Cl. 260—680.

Schleimer, Bernhard, and H. Weber, to Chemische Werke Huls Aktiengesellschaft. Liquid polymers of butadiene and styrene having a predominantly 1,4-cis structure. 3,321,541, 5–23–67, Cl. 260—669.

Schleimer, Bernard, and H. Weber, to Chemische Werke Huls Aktiengesellschaft. Process for the production of low molecular weight, liquid polybutadienes having a predominately 1,4-cis-structure and product. 3,329,734, 7–4–67, Cl. 260—680.

Schleimer, Bernhard, and H. Weber, to Chemische Werke Huls A.G. Process for the production of low-molecular weight liquid butadiene/diolefin copolymers with a high content of centrally positioned double bonds. 3,341,617, 9–12–67, Cl. 260—680.

Schlein, Helmar, to North American Aviation, Inc. Optimal controller computer. 3,309,507, 3–14–67, Cl. 235—150.1.

Schlein, Helmar, to North American Aviation, Inc. Voltage detection circuit. 3,309,614, 3–14–67, Cl. 328—147.

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Schlepnik, Alfred A., to Monsanto Co. α-Acylvinylthioethers. 3,305,588, 2–21–67, Cl. 260—590.

Schlernitzauer, Edward A., to Swift & Co. Method and apparatus for vacuum mixing food emulsions. 3,314,383, 4–18–67, Cl. 107—54.

Schlernitzauer, Edward A., to Swift & Co. Apparatus for dispensing and mixing measured amounts of liquid. 3,326,530, 6–20–67, Cl. 259—8.

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Schlesinger, Heinz, and J. Munder, to Keuffel & Esser Co. Diazo-type intermediate comprising a layer containing a tri-substituted phenol coupler. 3,307,949, 3–7–67, Cl. 96—75.

Schlesinger, Joseph H., to Eagle Chemical Co. Silicious dental filling. 3,328,880, 7–4–67, Cl. 32—15.

Schlesinger, Kurt, to General Electric Co. Electron focus projection and scanning system. 3,319,110, 5–9–67, Cl. 315—17.

Schlesinger, Kurt, to General Electric Co. Electrostatic electron optical system. 3,327,160, 6–20–67, Cl. 315—17.

Schlesinger, Martin D.: *See*—
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Schlesinger, Sheldon I., to Thiokol Chemical Corp. Oxiranyl thiirane and its preparation. 3,328,425, 6–27–67, Cl. 260—327.

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Schlicht, Gunther, deceased (by E. M. E. Schlicht, legal representative), and H. Lange, to Deutsche Erdol Aktiengesellschaft. Apparatus and process for underground heat and radiation treatment of bitumens. 3,325,373, 6–13–67, Cl. 176—39.

Schlicht, Gunther, deceased, (by E. M. Schlicht, legal representative), and H. Lange, to Deutsche Erdol-Aktiengesellschaft. Underground nuclear reactor and method of installing and operating the same. 3,341,424, 9–12–67, Cl. 176—39.

Schlicht, Gunther, deceased (by E. M. Schlicht, legal representative), and H. Lange, to Deutsche Erdol-Aktiengesellschaft. Method for the extraction of underground bituminous deposits. 3,349,850, 10–31–67, Cl. 166—40.

Schlichte, Max: *See*—
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Schlichte, Max, to Siemens & Halske Aktiengesellschaft. Circuit arrangement for pulse energy transmission. 3,303,286, 2–7–67, Cl. 179—15.

Schlichte, Max, to Siemens & Halske Aktiengesellschaft. Communication transmission system having a plurality of differently loaded two-wire line sections. 3,339,023, 8–29–67, Cl. 179—15.

Schlichte, Max, to Siemens Aktiengesellschaft, Berlin and Munich. Linking circuits for telephone systems comprising transformers utilizing only the linear working range thereof. 3,348,202, 10–17–67, Cl. 340—166.

Schlichtig, Ralph C. Dynamic pump type refrigeration system. 3,298,196, 1–17–67, Cl. 62—500.

Schlichting, Gilbert H. Marking and carrying container for data processing cards. 3,355,066, 11–28–67, Cl. 221—259.

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Weil, Edward D., and Schlichting. 3,349,116.

Schlichting, Karl, to Nordischer Maschinenbau Rud. Apparatus for decapitating and feeding fishes into dressing machines. 3,319,284, 5–16–67, Cl. 17—4.

Schlicke, Heinz M., to Allen-Bradley Co. Feedback arrangements for transforming isolator and gyrator circuits into similar or opposite type of circuit. 3,300,738, 1–24–67, Cl. 333—24.1.

Schlicke, Heinz M., F. A. Blomdahl, J. T. Barbieri, and R. J. Kocorowski, to Allen-Bradley Co. Low transfer impedance capacitor with resistive electrode. 3,329,911, 7–4–67, Cl. 333—79.

Schlieben, Ernest W. VTOL with cylindrical wing. 3,350,035, 10–31–67, Cl. 244—7.

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Schliebs, Reinhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of organic phosphorus halo-aluminum halide complexes. 3,329,697, 7–4–67, Cl. 260—448.

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Schlight, Raymond C., E. E. Schallenberg, and E. Moroz, to Texaco Inc. Derivatives of cyclic ketals. 3,308,064, 3–7–67, Cl. 252—46.6.

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Schlitt, Helmut, to European Atomic Energy Community-Euratom. Apparatus for use in wash-through chromatography. 3,313,419, 4-11-67, Cl. 210—198.

Schlitt, Helmut W. E., to Bell Aerospace Corp. Inertial navigation systems. 3,359,805, 12-26-67, Cl. 74—5.6.

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Schlitz, Boyd D., to Daffin Corp. Haystack transporting device. 3,298,550, 1-17-67, Cl. 214—505.

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Schloss, Fred to United States of America, Navy. Automatic recording phase and ratio meter. 3,296,528, 1-3-67, Cl. 324—83.

Schloss, Fred, to United States of America, Navy. Transducer mounting. 3,311,761, 3-28-67, Cl. 310—8.4.

Schloss, Fred, to United States of America, Navy. Intensity meter, particle acceleration type. 3,311,873, 3-28-67, Cl. 340—10.

Schloss, Fred, to United States of America, Navy. Testing apparatus. 3,326,038, 6-20-67, Cl. 73—71.6.

Schloss, Fred, to United States of America, Navy. Hydrophone unit. 3,333,236, 7-25-67, Cl. 340—8.

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Beck, Hans J., Schmidt, and Weigel. 3,320,193.

Schmidt, Kenneth A., to Nalco Chemical Co. Demineralization of polar liquids, especially water. 3,317,424, 5–2–67, Cl. 210—24.

Schmidt, Kenneth A., to Nalco Chemical Co. Process for demineralization of polar liquids, especially water. 3,359,-199, 12–19–67, Cl. 210—24.

Schmidt, Klaus: *See*—
Linder, Johann A. K. A. H., and Schmidt. 3,318,375.

Schmidt, Kurt, to Krewel-Leuffen G.m.b.H. N-(3'-hydroxy alkyl)-3,4,5-trimethoxybenzioeic acid alkyl amides. 3,330,-866, 7–11–67, Cl. 260—559.

Schmidt, Lawrence D., to Allied Chemical Corp. Process for producing carbon monoxide. 3,325,253, 6–13–67, Cl. 23—204.

Schmidt, Lewis W.: *See*—
Schmidt, Lewis W. 3,326,319.

Schmidt, Lewis W., 16% to L. K. Schmidt, 16% to A. M. Jongeneel, 10% to G. C. Gordon, 10% to E. F. Blackwelder, 16% to L. W. Schmidt, 16% to C. A. Loucks, 8% to D. P. Newell, 1¼% each to P. G., F. H., and R. E. Holt, H. H. Shelton, F. A. and D. A. Guernsey. Automatic steering device for row crop harvesters. 3,326,319, 6–20–67, Cl. 180—79.2.

Schmidt, Lloyd K.: *See*—
Schmidt, Lewis W. 3,326,319.

Schmidt, Lothar, and W. Neugebauer, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for separation of ammonia from gas mixtures. 3,312,525, 4–4–67, Cl. 23—196.

Schmidt, Lukas-Valentin: *See*—
Neary, Ralph E., Schmidt, and Tipping. 3,353,858.

Schmidt, Martin: *See*—
Dhaens, Edward, Obszarny, and Schmidt. 3,335,240.

Schmidt, Matthias. Method of fractionating starch. 3,307,-975, 3–7–67, Cl. 127—71.

Schmidt, Max, to Bellmann & Co. Apparatus for preserving and sealing a serving tray of thermoplastic material containing food products particularly frozen foods. 3,298,158, 1–17–67, Cl. 53—112.

Schmidt, Max. Apparatus for making hollow plastic articles. 3,301,737, 1–31–67, Cl. 156—511.

Schmidt, Max. Hollow decorative plastic articles. 3,312,581, 4–4–67, Cl. 161—6.

Schmidt, Merle H.: *See*—
Gee, Kenneth H., and Schmidt. 3,328,162.

Schmidt, Paul: *See*—
Martin, Henry, Schmidt, and Wilhelm. 3,340,144.
Martin, Henry, Schmidt, and Wilhelm. 3,340,145.
Schenker, Karl, Daeniker, Schmidt, and Wilhelm. 3,328,-424.

Schmidt, Paul, A. Rossi, K. Eichenberger, and M. Wilhelm, to Ciba Corp. 2-amino-5-diloweralkyl sulfamoyl-N,N-disubstituted benzamides. 3,318,882, 5–9–67, Cl. 260—247.1

Schmidt, Paul. Process and apparatus for placing materials in a state of plasma. 3,346,458, 10–10–67, Cl. 176—1.

Schmidt, Paul, M. Wilhelm, K. Eichenberg, and E. Sury, to Ciba Corp. 5-nitrothiazolyl-dioxo-diazacycloalkanes. 3,297,-699, 1–10–67, Cl. 260—256.5.

Schmidt, Paul, M. Wilhelm, and K. Eichenberger, to Ciba Corp. Anti-parasitic 5-nitrothiazolyl oxo-diazacycloalkane compositions. 3,298,914, 1–17–67, Cl. 167—53.

Schmidt, Paul, M. Wilhelm, and K. Eichenberger, to Ciba Corp. 5-nitrothiazolyl oxo-diazacycloalkanes. 3,299,069, 1–17–67, Cl. 260—256.5.

Schmidt, Paul, K. Eichenberger, and M. Wilhelm, to Ciba Corp. Pyrazole-carboxylic acid-hydrazides. 3,304,303, 2–14–67, Cl. 260—247.1.

Schmidt, Paul, M. Wilhelm, and K. Eichenberger, to Ciba Corp. Nitrothiazolyl amidines. 3,318,904, 5–9–67, Cl. 260—306.8.

Schmidt, Paul, K. Eichenberger, A. Rossi, and M. Wilhelm, to Ciba Corp. Derivatives of 5-lower alkyl-sulfonyl anthranilic acid lower alkyl esters. 3,332,982, 7–25–67, Cl. 260—470.

Schmidt, Paul, K. Eichenberger, M. Wilhelm, and A. Rossi, to Ciba Corp. 2-amino-5-sulfamyl-benzoic acid hydrazides. 3,346,568, 10–10–67, Cl. 260—239.8.

Schmidt, Paul, M. Wilhelm, K. Eichenberger, and E. Schumacher, to CIBA Corp. Pyridines and poultry feedstuffs and additives thereof containing pyridines. 3,352,683, 11–14–67, Cl. 99—2.

Schmidt, Paul F.: *See*—
Rose, Gerald D., and Schmidt. 3,323,957.

Schmidt, Paul F., and H. F. John, to Westinghouse Electric Corp. Simultaneous double diffusion process. 3,303,070, 2–7–67, Cl. 148—187.

Schmidt, Paul F., to Westinghouse Electric Corp. Method of making oxide film patterns. 3,345,274, 10–3–67, Cl. 204—15.

Schmidt, Paul F., and G. D. Rose, to Westinghouse Electric Corp. Electrolyte and diffusion process. 3,345,275, 10–3–67, Cl. 204—15.

Schmidt, Richard: *See*—
Schmidt, Richard, Jansch, and Rall. 3,298,203.

Schmidt, Richard, to Franz Morat G.m.b.H. Dust removing arrangement for circular knitting machines. 3,295,338, 1–3–67, Cl. 66—168.

Schmidt, Richard, to Franz Morat Firma, G.m.b.H. Electromagnetic selection of beard pressers. 3,323,331, 6–6–67, Cl. 66—102.

Schmidt, Richard, to Franz Morat G.m.b.H. Electrical control in circular knitting machines. 3,339,381, 9–5–67, Cl. 66—50.

Schmidt, Richard, W. Jansch, and R. Rall, to Franz Morat G.m.b.H. Thread feeding arrangement for knitting machines. 3,298,203, 1–17–67, Cl. 66—131.

Schmidt, Richard, and H. J. Stock, to Franz Morat, G.m.b.H. Knitting machine with synchronized pattern control. 3,313,128, 4–11–67, Cl. 66—50.

Schmidt, Richard, and H. J. Stock, to Franz Morat G.m.b.H. Continuously driven thread transporting means. 3,324,685, 6–13–67, Cl. 66—132.

Schmidt, Richard, and H. J. Stock, to Franz Morat G.m.b.H. Intermittently driven thread transporting apparatus. 3,327,-499, 6–27–67, Cl. 66—132.

Schmidt, Robert F.: *See*—
Link, Charles T., Jr., Schmidt, and Gooden. Re. 26,155.

Schmidt, Robert F., H. A. Leidecker, and D. G. Kirk, to Elgin Sweeper Co. Self-releasing hopper lock. 3,312,992, 4–11–67, Cl. 15—83.

Schmidt, Robert H. E. Back-pressure-controlled-motor-powered pump. 3,335,962, 8–15–67, Cl. 239—332.

Schmidt, Robert J.: *See*—
Ferm, Richard L., and Schmidt. 3,344,721.

Schmidt, Ronald G., and S. Nissim, to Honeywell Inc. High voltage power supply for photographic flash apparatus. 3,310,723. 3–21–67, Cl. 320—1.

Schmidt, Roy F. Hand tool for driving corrugated fasteners. 3,323,568, 6–6–67, Cl. 145—46.

Schmidt, Rudolph. Method of assembling threaded fastener and lock washer units. 3,304,562, 2–21–67, Cl. 10—86.

Schmidt, Siegfried, to North American Philips Co., Inc. Pressure wave actuating means for type hammers in high speed printers. 3,311,050, 3–28–67, Cl. 101—1.

Schmidt, Siegfried. Method of assembly of building elements for the making of ridged structures. 3,331,181, 7–18–67, Cl. 52—747.

Schmidt, Selgfried, to North American Philips Co., Inc. Circuit arrangement for the triggered discharge of a capacitor. 3,355,626, 11–28–67, Cl. 315—241.

Schmidt, Stanley A.: *See*—
Davidson, Ralph L., and Schmidt. 3,322,363.

Schmidt, Steven J.: *See*—
Garls, James D., Schmidt, and Fangman. 3,317,878.

Schmidt, Theodor, to Indugas, Gesellschaft fur Industrielle Gasverwertung m.b.H. Method of and an apparatus for the heat treating of metal type. 3,328,988, 7–4–67, Cl. 72—128.

Schmidt, Trueman L., to Olympia Brewing Co. Insulated reclosable beer carton. 3,346,167, 10–10–67, Cl. 229—20.

Schmidt, Volker: *See*—
Hackenberg, Walter, and Schmidt. 3,315,247.

Schmidt, Waldemar M., to General Binding Corp. Sheet feeding device with corner separators. 3,310,303, 3–21–67, Cl. 271—21.

Schmidt, Walter, to Loewe Opta G.m.b.H. Flash unit for photographic purposes with mounting bracket. 3,338,146, 8–29–67, Cl. 95—11.

Schmidt, Walter, and H. Pockelwaldt, to Loewe Opta G.m.b.H. Mounting bracket for photographic flashguns, more particularly electronic flashguns. 3,335,650, 8–15–67, Cl. 95—11.

Schmidt, Warren J.: *See*—
Gambale, John C., and Schmidt. 3,343,084.

Schmidt, Warren J., to American Machine & Foundry Co. Automatic positioning apparatus utilizing magnetic recording means. 3,350,699, 10–31–67, Cl. 340—174.1.

Schmidt, Warren J., and J. C. Gambale, to Westinghouse Electric Corp. Voltage comparator circuits. 3,331,989, 7–18–67, Cl. 317—27.

Schmidt, Werner: *See*—
Ruschig, Heinrich, Korger, Aumuller, and Schmidt. 3,347,914.
Wommelsdorf, Fritz, and Schmidt. 3,351,174.
Wommelsdorf, Fritz, and Schmidt. 3,357,623.
Wulf, Horst-Dieter, and Schmidt. 3,341,615.

Schmidt, Wilhelm F., K. W. Hass, and H. G. Epler, to Dynamit Nobel Aktiengesellschaft. Process for the manufacture of chlorine and process for conversion of nitrosyl chloride. 3,318,665, 5–9–67, Cl. 23—219.

Schmidt, Willi J., to Kalle Aktiengesellschaft. Friction device for winding machines. 3,323,747, 6–6–67, Cl. 242—75.4.

Schmidt, William: *See*—
Cantor, Abraham, Schmidt, and Winicov. 3,355,392.

Schmidt, William. Trailer apparatus. 3,339,321, 9–5–67, Cl. 52—66.

Schmidtke, Joachim G. Sheet delivery unit. 3,328,027, 6–27–67, Cl. 271—68.

Schmidtlein, John A., to United States of America, Army. Gaseous discharge lamp with internally cooled electrodes. 3,311,769, 3–28–67, Cl. 313—32.

Schmidt-Nickels, Wilhelm: *See*—
Chiddix, Max E., Randall, and Schmidt-Nickels. 3,301,-846.

Schmidts, Kurt: *See*—
Rettig, August, Schmidts, and Daur. 3,321,563.

Schmidt-Salzmann, Walther. Yarn lubricating device. 3,347,-206, 10–17–67, Cl. 118—8.

Schmidt'sche Heissdampf-Gesellschaft m.b.H.: *See*—
Vollhardt, Fromut. 3,306,351.
Vollhardt, Fromut. 3,348,610.

Schmidt-Theuner, Peter: *See*—
Baumann, Hans, and Schmidt-Theuner. 3,327,933.
Baumann, Hans, and Schmidt-Theuner. 3,342,406.

Schmied, August, and W. Jan, to Elin-Union Aktiengesellschaft fur Elektrische. Regulating transformer. 3,344,380, 9–26–67, Cl. 336—58.

Schmiedel, James P., and R. C. Rothweller, to Square D Co. Emergency break-glass pushbutton. 3,297,853, 1–10–67, Cl. 200—168

Schmieder, Theodor, to Eisenwerk Weserhutte A.G. Supporting structure for movable belt conveyors. 3,348,663, 10–24–67, Cl. 198—192.

Schmier, Alfred: *See*—
Ryhiner, Guenther, and Schmier. 3,345,215.

Schmit, Frank L.: *See*—
Thayer, Paul M., Schmit, and Trainor. 3,353,677.

Schmit, Roger A., to Teletype Corp. Code transmitter-distributor with mechanical means for varying duration of stop pulse. 3,351,711, 11–7–67, Cl. 178—53.1.

Schmitt, Alfred, to J. Engelsmann AG. Mixing device. 3,315,945, 4–25–67, Cl. 259—72.

Schmitt, Arnold J.: *See*—
Rempel, Cornelius, and Schmitt. 3,359,940.

Schmitt, David L., to Shell Oil Co. Inventory control system. 3,312,812, 4–4–67, Cl. 235—151.34.

Schmitt, David L., and P. L. Datt, to Shell Oil Co. Detecting an expendable oil pipe line plug. 3,302,446, 2–7–67, Cl. 73—3.

Schmitt, Edward E., and R. A. Pollstina, to American Cyanamid Co. Surgical sutures. 3,297,033, 1–10–67, Cl. 128—333.5.

Schmitt, Eugen, and E. Lieser, to Eastman Kodak Co. Carrying case, particularly for photographic cameras. 3,295,576, 1–3–67, Cl. 150—52.

Schmitt, Friedrich H. M., to FKF-Werke Friedrich Schmitt & Cie. Apparatus for packing merchandise in the form of pieces. 3,339,604, 9–5–67, Cl. 146—106.

Schmitt, George J.: *See*—
Bostian, Logan C., Lund, Oxenrider, and Schmitt. 3,340,-229.
Litt, Morton H., and Schmitt. 3,324,187.
Litt, Morton H., and Schmitt. 3,358,002.

Schmitt, George J., J. Pisanchyn, and W. F. Chapman, to Allied Chemical Corp. Chlorine initiated liquid phase oxida-

tion of alicyclic hydrocarbous. 3,334,141, 8–1–67, Cl. 260—586.
Schmitt, Hans, to Telefonbau und Normalzeit G.m.b.H. Envelope closing devices. 3,353,513, 11–21–67, Cl. 118—32.
Schmitt, Heinz E., to Lockheed Aircraft Corp. Flight control means for aircraft. 3,313,500, 4–11–67, Cl. 244—53.
Schmitt, Helmut, to P. Gossen & Co., G.m.b.H. Electronically controlled aperture and shutter arrangements for use with camera. 3,348,460, 10–24–67, Cl. 95—10.
Schmitt, James L., to Caterpillar Tractor Co. Filter element indicator. 3,358,836, 12–19–67, Cl. 210—90.
Schmitt, Josef, to Etablissements Clin-Byla (Société Anonyme). Process for the production of derivatives of phenothiazine and new derivatives. 3,330,826, 7–11–67, Cl. 260—243.
Schmitt, Josef, to Etablissements Clin-Byla. 5-(2-oxo-2,5-dihydro-4-furyl)-benzo(b)-furans and intermediates therefor. 3,355,463, 11–28–67, Cl. 260—343.6.
Schmitt, Josef, and M. D. P. Brunand, to Etablissements Clin-Byla. Coumarin derivatives and their preparation. 3,325,515, 6–13–67, Cl. 260—343.2.
Schmitt, Joseph M., L. A. Landers, and J. F. Terenzi, to American Cyanamid Co. Blends of methyl methacrylate resinous copolymers and grafted elastomers. 3,354,238, 11–21–67, Cl. 260—876.
Schmitt, Karl, J. Disteldorf, and J. Reiffer, to Scholven-Chemie Aktiengesellschaft. Production of trimethyl adipic dinitrile. 3,297,736, 1–10–67, Cl. 260—465.2.
Schmitt, Karl, J. Disteldorf, and J. Reiffer, to Scholven-Chemie Aktiengesellschaft. Process for the production of trimethyl adipic acid dinitrile. 3,297,740, 1–10–67, Cl. 260—465.2.
Schmitt, Karl, J. Disteldorf, and J. Reiffer, to Scholven-Chemie Aktiengesellschaft. Process for the purification of trimethyl adipic acid dinitrile. 3,297,741, 1–10–67, Cl. 260—465.2.
Schmitt, Karl, J. Disteldorf, and W. Baron, deceased, (by G. Baron, nee Mayer, legal representative), to Hibernia-Chemie G.m.b.H. Process for recovering isophorone. 3,337,423, 8–22–67, Cl. 203—37.
Schmitt, Karl, J. Disteldorf, and W. Baron, deceased, (by G. Baron, nee Mayer, legal representative), to Hibernia-Chemie G.m.b.H. Process for recovering isophorone in high purity. 3,337,632, 8–22–67, Cl. 260—586.
Schmitt, Karl, J. Disteldorf, and W. Baron, deceased, (by G. Baron, nee Mayer, legal representative), to Hibernia-Chemie G.m.b.H. Production of isophorone. 3,337,633, 8–22–67, Cl. 260—586.
Schmitt, Karl, and F. Gude, to Scholven-Chemie Aktiengesellschaft. Polyurethanes from 1-isocyanato - 3 - isocyanatomethyl-3,5,5-tri-alkylcyclohexane. 3,352,830, 11–14–67, Cl. 260—77.5.
Schmitt, Karl, J. Disteldorf, and G. Keller, to Scholven-Chemie Aktiengesellschaft. Polyamides from 3-amino-methyl-3,5,5-trialkyl-1-cyclohexylamine. 3,352,831, 11–14–67, Cl. 260—78.
Schmitt, Karl, and J. Disteldorf, to Scholven-Chemie Aktiengesellschaft. Condensation products of 3-aminomethyl-3,5,5-trialkyl-1-cyclohexylamine and aliphatic dicarboxylic acid and cyclic carboxylic acid. 3,352,824, 11–14–67, Cl. 260—78.
Schmitt, Karl, and F. Gude, to Scholven-Chemie Aktiengesellschaft. Polyamides from 3-aminomethyl-3,5,5-trimethyl-1-cyclohexylamine and a second diamine and preparation thereof. 3,352,835, 11–14–67, Cl. 260—78.
Schmitt, Karl, and F. Gude, to Scholven-Chemie Aktiengesellschaft. Polyamides from 3-aminomethyl-3,5,5-trialkyl-1-cyclohexylamine. 3,352,836, 11–14–67, Cl. 260—78.
Schmitt, Karl, J. Disteldorf, and W. Hubel, to Scholven-Chemie Aktiengesellschaft. 3-aminomethyl-3,5,5-trialkyl-1-cyclohexylamine and cyclohexanol compounds. 3,352,913, 11–14–67, Cl. 260—563.
Schmitt, Karl, and F. Gude, to Scholven-Chemie Aktiengesellschaft. Polyamides from 3-amino methyl-3,5,5-trimethyl-cyclo-hexylamine and an amino acid. 3,352,942, 11–14–67, Cl. 260—857.
Schmitt, Paul, and G. Dittgen, to Mannesmann-Meer Aktiengesellschaft. Roll-straightening machine. 3,345,847, 10–10–67, Cl. 72—224.
Schmitt, Richard G., and R. K. Brehm, to Jarrell-Ash Co. Double beam vacuum ultra-violet spectrophotometer using a toroidal mirror oscillating about the center of curvature. 3,349,241 10–24–67, Cl 250—43.5
Schmitt, William C., to Milwaukee Faucets, Inc. Water mixing device for water closet storage tanks. 3,316,932, 5–2–67, Cl. 137—512.
Schmitz, Adolf, to Th. Goldschmidt A.G. Bubble bath preparation 3,328,307, 6–27–67, Cl. 252—106.
Schmitz, Albert A. Fluid power converter. 3,312,175, 4–4–67, Cl. 103—121.
Schmitz, Anton: *See*—
Heyl, Gerhard, Luttgens, and Schmitz. 3,327,685.
Heyl, Gerhard, Luttgens, and Schmitz. 3,332,395.
Schmitz, Francis J. Load heaters. 3,315,659, 4–25–67, Cl. 126—343.5.
Schmitz, Franz J.: *See*—
Macura, Karl, Schmitz, and Siggel. 3,297,467.
Macura, Karl, Schmitz, and Siggel. 3,297,468.
Schmitz, Fred W., and J. B. Tindall, to Commercial Solvents Corp. Process for the production of tris(hydroxymethyl) aminomethane crystals. 3,338,970, 8–29–67, Cl. 260—584.
Schmitz, Heinz, to F. Thegarten. Automatic wrapping machine. 3,325,071, 6–13–67, Cl. 226—11.
Schmitz, Heinz-Hermann. Fastening device. 3,318,595, 5–9–67, Cl. 260—289.
Schmitz, Henry: *See*—
Price, Kenneth E., and Schmitz. 3,345,261.
Schmitz, Henry, to Bristol-Myers Co. Antibiotic streptogan and process for preparation. 3,334,015, 8–1–67, Cl. 167—65.
Schmitz, Henry, to Bristol-Myers Co. Hedamycin and process for its production. 3,334,016, 8–1–67, Cl. 167—65.
Schmitz, Jacques. Apparatus for washing textile materials such as unfinished wools, etc. 3,332,258, 7–25–67, Cl. 68—9.
Schmitz, James E.: *See*—
Schmitz, Vincent O., and Schmitz. 3,351,139.
Schmitz, Lawrence S.: *See*—
Thompson, Francis T., and Schmitz. 3,335,228.
Schmitz, Mattheus J., to North American Philips Co. Inc. Marking circuit arrangement having means for suppressing marking potential. 3,343,129, 9–19–67, Cl. 340—166.
Schmitz, Mattheus J., and A. F. van der Gaag, to North American Philips Co., Inc. Plural channel switching network with check of marking of channel link. 3,311,883, 3–28–67, Cl. 340—166.
Schmitz, Norbert L., to Louis Allis Co. Static inverter circuit. 3,340,457, 9–5–67, Cl. 321—45.
Schmitz, Robert, to Honeywell Inc. Controlling apparatus. 3,350,053, 10–31–67, Cl. 251—5.
Schmitz, Vincent O. and J. E. Plow colter. 3,351,139, 11–7–67, Cl. 172—602.
Schmitz-Josten, Robert: *See*—
Frank, Günter, Kubens, Schmitz-Josten, Wegler, and Dortmann. 3,316,277.
Frank, Gunter, Wegler, Schmitz-Josten, and Kubens. 3,336,342.
Schmitz-Josten, Robert, R. Kubens, G. Frank, and R. Wegler, to Farbenfabriken Bayer Aktiengesellschaft. Process for curing polyepoxides. 3,296,202, 1–3–67, Cl. 260—47.
Schmitz-Josten, Robert, G. Frank, R. Wegler, and K. Andres, to Farbenfabriken Bayer Aktiengesellschaft. Epoxy resins prepared by the reaction of epihalohydrin with a resin formed by reacting a phenol with a long chain halogenated hydrocarbon contalning at least 2 halogen atoms. 3,342,-895, 9–19–67, Cl. 260—830.
Schmoegner, Ralph F., to Westinghouse Air Brake Co. Cushioned cylinder arrangement having a combined check valve and needle valve. 3,303,746, 2–14–67, Cl. 91—26.
Schmolka, Irving R.: *See*—
Kaneko, Thomas M., and Schmolka. 3,359,207.
Schmolka, Irving R., to Wyandotte Chemicals Corp. Forming detergent compositions. 3,337,463, 8–22–67, Cl. 252—89.
Schmolka, Irving R., and M. H. Earing, to Wyandotte Chemicals Corp. Low foaming detergent. 3,314,891, 4–18–67, Cl. 252—89.
Schmoyer, Arthur R. Visual chord teaching device. 3,335,630, 8–15–67, Cl. 84—478.
Schmoyer, Arthur R., 50% to D. S. Wenger. Apparatus for teaching the operation of a keyboard-controlled machine or instrument. 3,353,435, 11–21–67, Cl. 84—478.
Schmuck, Fredric E.: *See*—
Schoepe, Adolf, and Schmuck. 3,319,913.
Schmukler, Seymour: *See*—
Schaaf, Kurt H., Schmukler, and Klein. 3,334,118.
Schmukler, Seymour, to General Electric Co. Reaction product of a diphenol and an allylhaloformate. 3,328,455, 6–27–67, Cl. 260—463.
Schmunk, John D. Pipe coupling. 3,334,928, 8–8–67, Cl. 285—110.
Schmutz, Jean, and F. Hunziker, to Dr. A. Wander, S.A. 10-(basic substituted)-dibenzodiazepines. 3,312,689, 4–4–67, Cl. 260—239.
Schmutz, Jean, and F. Hunziker, to Dr. A. Wander, S.A. 10-(Basic substituted)-dibenz[b,f][1,4]oxazepinones. 3,337,-536, 8–22–67, Cl. 260—239.3.
Schmutz, Jean, and F. Hunziker, to Dr. A. Wander, S.A. 5-(basic substituted)-dibenzodiazepines. 3,347,849, 10–17–67, Cl. 260—239.
Schmutz, Karl: *See*—
Aemmer, Peter, and Schmutz. 3,354,402.
Schmutzler, Reinhard, to E. I. du Pont de Nemours and Co. Nitrogen-containing fluorophosphoranes. 3,300,503, 1–24–67, Cl. 260—293.
Schnabel, Fred C. Cake container and server. 3,330,610, 7–11–67, Cl. 312—284.
Schnabek Fred C. Combination dual container and suspension means therefor. 3,333,686, 8–1–67, Cl. 206—47.
Schnabel, Harold R. Spark plug having a thermal primer ring. 3,324,330, 6–6–67, Cl. 313—143.
Schnabel, Harry V., Jr. Water sealed pumping system. 3,342,-135, 9–19–67, Cl. 103—5.
Schnabel, Herbert W.: *See*—
Sickle, Vernon C., and Schnabel. 3,341,984.
Schnabel, Herbert W., to Armour and Co. Flexible, coated abrasive product. 3,331,667, 7–18–67, Cl. 51—298.
Schnacke, Walter H. Saw tooth reconditioner and sharpener. 3,331,264, 7–18–67, Cl. 76—89.2.
Schnakenberg, Robert H.: *See*—
Hoffman, Robert C., and Schnakenberg. 3,326,460.
Schnase, Adolph R., to Davidson Optronics, Inc. Camera-to-tripod connector. 3,356,325, 12–5–67, Cl. 248—187.
Schneberger, Edward J.: *See*—
Koerner, Ralph J., and Schneberger. 3,300,766.

Schneberger, Edward J., to The Bunker-Ramo Corp. Data processing apparatus including means for correcting codes arranged in a packed format. 3,324,288, 6–6–67, Cl. 235—154.
Schneble, Frederick W., Jr., R. J. Zeblisky, J. F. McCormack, and J. D. Williamson, to Day Co., N.V. Electroless copper plating. 3,310,430, 3–21–67, Cl. 117—130.
Schneble, Frederick W., Jr., J. Polichette, and E. J. Leech. Multilayer printed circuit assemblies. 3,322,881, 5–30–67, Cl. 174—68.5.
Schneble, Frederick W., Jr., J. Polichette, and E. J. Leech, to Photocircuits Corp. Metallizing flexible substrata. 3,347,-724, 10–17–67, Cl. 156—151.
Schneck, Martin, to The Thomas & Betts Co. Electrical connector with terminal elements of generally T-shaped cross section. 3,351,891, 11–7–67, Cl. 339—176.
Schneck, Remsen T. E., to Keystone Chemurgic Corp. Antacid composition containing hydrated magnesium aluminate. 3,323,993, 6–6–67, Cl. 167—55.
Schneider, Paul E., to Armco Steel Corp. Method and apparatus for controlling the alloying of zinc coatings. 3,307,-968 3–7–67. Cl. 117—114.
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Schneekluth, Herbert, and F. Ahrens, to Paul Lindenau Schiffswerft und Maschinenfabrik. Bow bulb for ships. 3,306,244, 2–28–67, Cl. 114—56.
Schneeman, Justin G. Fixture for radiographic examination of small object having means for simultaneously rotating said object. 3,296,436, 1–3–67, Cl. 250—51.
Schnegg, Robert, R. Dippelhofer, H. Pelousek, H. Nordt, and H.-A. Dortmann, to Farbenfabriken Bayer Aktiengesellschaft. Copolyether esters and a process for their preparation. 3,337,500, 8–22–67. Cl. 260—47.
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Schneider, Abraham, to Sun Oil Co. Process for converting 1,2,3,4-tetrahydronaphthalene to octahydroanthracene and octahydrophenanthrene. 3,320,332, 5–16–67, Cl. 260—668.
Schneider, Abraham, to Sun Oil Co. Preparation of dimethyldecalins. 3,346,656, 10–10–67, Cl. 260—666.
Schneider, Abraham, to Sun Oil Co. Conversion of non-bridgehead hydroxyadamantane compounds. 3,356,739, 12–5–67, Cl. 260—617.
Schneider, Abraham, to Sun Oil Co. Preparation of hydroxyalkyladamantanes. 3,356,740, 12–5–67, Cl. 260—617.
Schneider, Abraham, to Sun Oil Co. Preparation of dihydroxyalkyladamantanes. 3,356,741, 12–5–67, Cl. 260—617.
Schneider, Abraham, to Sun Oil Co. Preparation of methyladamantane and dimethyladamantanes. 3,356,751, 12–5–67, Cl. 260—666.
Schneider, Abraham, E. J. Janoski, and R. W. McGinnis, to Sun Oil Co. Preparation of alkyladamantanes having an ethyl substituent. 3,336,405, 8–15–67, Cl. 260—666.
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Schneider, Alfred, to Holley Carburetor Co. Electronic advance for engine ignition systems. 3,314,407, 4–18–67, Cl. 123—148.
Schneider, Burnett M., to Allis-Chalmers Mfg. Co. Method of making silver catalyzed fuel cell electrode. 3,352,719, 11–14–67. Cl. 136—120.
Schneider, Charles, and D. Caporossi, to La Telemecanique Electrique. Isolating switches equipped with cartridge fuses. 3,325,615, 6–13–67, Cl. 200—114.
Schneider, Charles F., to Armstrong Cork Co. Chip forming apparatus. 3,350,971, 11–7–67, Cl. 83—354.
Schneider, Clayton J., Jr., to Cornell Aeronautical Laboratory, Inc. Explosive projector. 3,344,742, 10–3–67, Cl. 102—7.2.
Schneider, Emmor V., and A. F. Deming, to Consolidated Electronics Industries Corp. Combination switch control for servo-circuit systems. 3,297,923, 1–10–67, Cl. 318—18.
Schneider, Emmor V., and A. F. Deming, to Consolidated Electronics Industries Corp. Phase sensitive circuit with selectively energizable loads. 3,327,187, 6–20–67, Cl. 318—29.
Schneider, Frank L. Road salt composition. 3,350,315, 10–31–67, Cl. 252—70.
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Schneider, Fred, M. J. Mansfield, and J. W. Seaborn, to United Merchants and Mfg., Inc. Apparatus for forming stiffened and folded marginal edges in flexible fibrous panels. 3,338,-773, 8–29–67, Cl. 156—444.
Schneider, Frederick H., and C. D. Birkhead, to Mobil Oil Corp. Purifying diolefins by selective hydrogenation and distillation. 3,328,479, 6–27–67, Cl. 260—681.5.
Schneider, Fredric H. Leveling rod device. 3,357,106, 12–12–67, Cl. 33—74.
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Schneider, Hans, to Sulzer Bros., Ltd. Process for production of lost models in precision casting operations. 3,313,-637, 4–11–67, Cl. 106—38.5.
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Schneider, Hans-Dieter, to Fernseh G.m.b.H. Circuit for providing coincidence of colour television pick-up tube rasters. 3,305,750, 2–21–67, Cl. 315—27.
Schneider, Hans-Dieter, to Fernseh GmbH. Inverter unit with automatic output interrupter upon associated equipment failure. 3,335,316, 8–8–67, Cl. 315—20.
Schneider, Harold R., to General Motors Corp. Crankcase ventilation system. 3,313,281, 4–11–67, Cl. 123—119.
Schneider, Harry, to Pottsville Bleaching and Dyeing Co. Method and apparatus for setting the color of dyed tubular fabrics. 3,318,114, 5–9–67, Cl. 68—5.
Schneider, Helmuth G., and T. F. O'Connor, to Esso Research and Engineering Co. Separation of BF_3 catalyst from alkyl phenol. 3,359,333, 12–19–67, Cl. 260—624.
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Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils S.A. Shock-absorbing bearing for timepiece. 3,306,-027. 2–28–67, Cl. 58—140.
Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs Tissot et Fils S.A. Watch movement with ringing mechanism. 3,316,707, 5–2–67, Cl. 58—21.12.
Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs Tissot et Fils S.A. Watch movement with ringing mechanism. 3,316,710, 5–2–67, Cl. 58—57.5.
Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils S.A. Pivoting device of a watch movement train element. 3,324,646, 6–13–67, Cl. 58—140.
Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils S.A. Device for securing one end of a watch regulating balance-spring to a connecting member. 3,328,955, 7–4–67, Cl. 58—115.
Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils S.A. Anchor escapement for timepieces. 3,335,562, 8–15–67, Cl. 58—122.
Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils S.A. Ringing watch piece. 3,352,102, 11–14–67, Cl. 58—53.
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Schneider, John R. Automatic device for controlling feed of aids to filtration. 3,349,913, 10–31–67, Cl. 210—85.
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Schneider, Julius E., to Phillips Petroleum Co. Absorption flow control. 3,333,398, 8–1–67, Cl. 55—18.

Schneider, Julius F., to Engelhard Industries, Inc. Noble metal thermocouple having base metal compensating leads. 3,328,-209, 6–27–67, Cl. 136—227.

Schneider, Jurgen. Heater-ventilator. 3,309,846, 3–21–67, Cl. 55—233.

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Schneider, Karl, and H. A. Baron, to Harnischfeger Corp. Center gudgeon adjustment means. 3,338,425, 8–29–67, Cl. 212—66.

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Schneider, Kurt R. Intermittent driving mechanism. 3,305,-056, 2–21–67, Cl. 192—33.

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Schneider, Kurt R. Pressure plate for label-sheet feed means. 3,337,383, 8–22–67, Cl. 156—363.

Schneider, Leopold M., to Ritter Pfaudler Corp. Headrest for dental operating chair. 3,300,249, 1–24–67, Cl. 297—408.

Schneider, Luther K., to Western Electric Co., Inc. Photoelectric device for distrbuting strands on a reel. 3,319,070, 5–9–67, Cl. 250—222.

Schneider, Martin V., to Bell Telephone Laboratories Inc. Impedance transformer. 3,320,556, 5–16–67, Cl. 333—34.

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Schneider, Paul, to Brown Boveri & Cie, Aktiengesellschaft. Cabinet for semiconductors with cooling blocks. 3,344,315, 9–26–67, Cl. 317—100.

Schneider, Paul J. Photoelectric frequency responsive speckled bottle recognition apparatus. 3,307,040, 2–28–67, Cl. 250—223.

Schneider, Paul J. Bottle recognition apparatus. 3,358,552, 12–19–67, Cl. 88—14.

Schneider, Ralph P., to Air Drilling Specialties Co. Method of, and composition for use in, gas drilling. 3,313,362, 4–11–67, Cl. 175—71.

Schneider, Raymond C.: *See*—
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Schneider, Raymond F. Wave-powered spinning aquatic toy. 3,308,574, 3–14–67, Cl. 46—41.

Schneider, Richard C.: *See*—
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Schneider, Richard C., and D. C. Steltz. Therapeutic bath fluid circulating device. 3,319,266, 5–16–67, Cl. 4—180.

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Stoner, Arthur M., Paquin, and Schneider. 3,302,427.

Schneider, Richard R., to Harbison-Walker Refractories Co. Rotary kiln. 3,343,824, 9–26–67, Cl. 263—33.

Schneider, Robert, and P. Gisin, to Synthes AG. Intramedullary nail. 3,334,624, 8–8–67, Cl. 128—92.

Schneider, Ronald E., and O. A. Clemens, to Swift & Co. Bacon pressing. 3,326,120, 6–20–67, Cl. 100—51.

Schneider, Rudolf, and O. Court, to Farbenfabriken Bayer Aktiengesellschaft. Vessel subdivided by partitions into several cells transversely to its longitudinal axis. 3,321,-282, 5–23–67, Cl. 23—273.

Schneider, Rudolf, and K. H. Haenisch, to E. I. du Pont de Nemours and Co. Process for modifying polyester film bases using irradiation. 3,360,448, 12–26–67, Cl. 204—159.19.

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Schneider, Thomas E., Jr., G. T. Jones, and J. W. Girvan, to Tesco Chemical, Inc. Safety device for gas cylinders. 3,323,-541, 6–6–67, Cl. 137—312.

Schneider, Walter, and E. Fischer. Fastening clamp. 3,295,812, 1–3–67, Cl. 248—229.

Schneider, Walter E. Vertically adjustable cradle for a surface brushing machine. 3,303,524, 2–14–67, Cl. 15—49.

Schneider, Wilhelm A.: *See*—
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Schneider, William J., Jr., to United States of America, Navy. Transistor circuit constructions for active type band pass filters. 3,296,546, 1–3–67, Cl. 330—21.

Schneider, William S.: *See*—
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Schneider, William S., and A. P. Corella, 10% to Wayne V. Rodgers. Method of making stand-up package. 3,354,601, 11–28–67, Cl. 53—28.

Schneider, William S., and A. P. Corella, 10% to V. Wayne Rodgers. Method of making multiple compartment package. 3,358,416, 12–19–67, Cl. 53—29.

Schneider, Willy, deceased, by I. Schneider, heir. Power driven rug displaying device. 3,315,813, 4–25–67, Cl. 211—1.5.

Schneider, Willy, deceased (I. Schneider, nee Hefendehl, heir of said W. Schneider). Device including a chain drive for storing and displaying rolled-up merchandise. 3,318,459, 5–9–67, Cl. 211—122.

Schneider, Willy, deceased; I. Schneider, heir. Rug displaying device adapted to be readily assembled and disassembled. 3,330,418, 7–11–67, Cl. 211—47.

Schneider, Wolfgang, and W. Ziegenbein, to Chemische Werke Huls Aktiengesellschaft. Process for producing monooxonation products of cyclic dimers and trimers of butadiene-(1,3). 3,312,742, 4–4–67, Cl. 260—598.

Schneiderman, Seymour A. Wheeled sled with hand brake. 3,345,080, 10–3–67, Cl. 280—8.

Schnelter, Ali, to Ebauches S.A. Means for balancing a rotary or oscillatory fly-wheel. 3,349,640, 10–31–67, Cl. 74—573.

Schnell, Carl, 14, to The Griffith Laboratories, Inc. Comminuting machine. 3,304,976, 2–21–67, Cl. 146—182.

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Schnell, Hermann, K. Prater, and H. Rudolph, to Farbenfabriken Bayer Aktiengesellschaft. 1,2-substituted ethanes as catalysts for unsaturated polyesters. 3,313,863, 4–11–67, Cl. 260—864.

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Schneller, John W. Toiletry dispenser. 3,349,967, 10–31–67, Cl. 222—130.

Schneller, Joseph W., to National Gypsum Co. Structural connector clip. 3,307,315, 3–7–67, Cl. 52—490.

Schneller, Joseph W., to National Gypsum Co. Simulated curtain wall construction with sheet clad mullions. 3,338,011, 8–29–67, Cl. 52—282.

Schneller, Joseph W., to National Gypsum Co. Roof-forming plank clip. 3,359,701, 12–26–67, Cl. 52—712.

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Schneller, Rudy F., to McNeil Corp. Measuring pump. 3,316,-853, 5–2–67, Cl. 103—203.

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Schner, Charles, III, to Schner-Block Co., Inc. Button package. 3,318,445, 5–9–67, Cl. 206—78.

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Schnettler, Jerome L., to Milwaukee Electric Tool Corp. Rotary hammer. 3,334,694, 8–8–67, Cl. 173—109.

Schnettler, Robert W., to Hercules Inc. Electric initiator structure. 3,333,538, 8–1–67, Cl. 102—28.

Schnider, Albert, K. Ryffel, and W. Hurschler, to Inventa A.G. fur Forschung und Patentverwertung. Process for the production of cyclopentano omega-oenantholactam. 3,354,-146, 11–21–67, Cl. 260—239.3.

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Schnizer, Arthur W., and W. E. Heinz, to Celanese Corp. Polyoxymethylene polymer and polymerization process. 3,337,-503, 8–22–67, Cl. 260—67.

Schnoebelen, Earl L. Gear driven screwdriver. 3,315,545, 4–25–67, Cl. 74—789.

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Schnurrbusch, Karl, and W. Noll, to Farbenfabriken Bayer Aktiengesellschaft. Process for securing connection between two solid surfaces by means of a polydimethyl siloxane. 3,309,253, 3–14–67, Cl. 156—92.

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Schoeler, Horst, O. Weibrecht, H. Hartwig, and A. Heyroth, to VEB Carl Zeiss Jena. Differential aerophotogram rectifiers. 3,326,080, 6–20–67, Cl. 88—24.

Schoeler, Horst, F. Manek, by Eva Manek, executrix, to VEB Carl Zeiss Jena. Photogrammetric apparatus for stereoscopic plotting of photograms. 3,355,807, 12–5–67, Cl. 33—1.

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Schoenbeck, Melvin A., to E. I. du Pont de Nemours and Co. Method of heat treating ethylene/alpha-monoolefin/nonconjugated diene polymers. 3,296,183, 1–3–67, Cl. 260—41.

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Schreiber, Ann M., to The B. F. Goodrich Co. Cure system for ethylene-vinyl chloride polymers. 3,303,172, 2–7–67, Cl. 260—79.5.

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Schuman, Seymour C. Production of styrene. 3,344,201, 9-26-67, Cl. 260—669.

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Schuman, Seymour C., R. H. Wolk, and M. C. Chervenak, to Hydrocarbon Research, Inc. Hydrogenation of coal. 3,321,393, 5-23-67, Cl. 208—10.

Schumann, Alfred F. Bilge pump. 3,316,845, 5-2-67, Cl. 103—26.

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Schumann, Edward L., to The Upjohn Co. O-monoalkoxybenzylhydroxyl amines. 3,347,933, 10-17-67, Cl. 260—612.

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Schumann, Herbert, M. Schumann, K. Dehmel, E. Menzl, and H. Wappler, to VEB alwo Atenburger Wollspinnerl. Apparatus for making corkscrew-type yarns. 3,328,946, 7-4-67, Cl. 57—18.

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Schumscher, William L., to AMP Inc. Co-ax patch panel and insulative housing members therefor. 3,358,262, 12-12-67, Cl. 339—91.

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Schunda, Anton, to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. Transfer switch for tap-changing transformers convertible for adaptation to a wide range of currents. 3,360,618, 12-26-67, Cl. 200—11.

Schundehutte, Karl-Heinz, F. Suckfull, and H. Nickel, to Farbenfabriken Bayer Aktiengesellschaft. Copper-containing polyazo dyestuffs. 3,317,507, 5-2-67, Cl. 260—145.

Schunemann, Calvin A., to Horizons Inc. Copper coated steel. 3,311,458, 3-28-67, Cl. 29—183.5.

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Schünemann, Rudiger, to Siemens & Halske Aktiengesellschaft. Transmitter protective circuit with preset permissible number of faults and adjustable interruption duration. 3,328,696, 6-27-67, Cl. 325—151.

Schupack, Morris, to The Preload Co. Open end structure having a positively engaged closure. 3,353,859, 11-21-67, Cl. 292—256

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Schuster, Michael M., to Hi-Shear Corp. Joint including tapered fastener. 3,304,109, 2-14-67, Cl. 287—189.36.

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Schuster, Norman J., and C. H. Wolfe, to Litton Systems, Inc. Multilayer laminated wiring. 3,344,515, 10-3-67, Cl. 29—628.

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Schwaar, Edouard, to Societe Suisse Pour l'Industrie Horlogere S.A. Hands setting mechanism for an electric timepiece. 3,296,790, 1-10-67, Cl. 58—85.5.

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Schwalm, Glendon H., to AMP Inc. Lead-stacking means. 3,339,755, 9-5-67, Cl. 214—6.

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Schwanenflugel, Paul J., to Westinghouse Electric Corp. Protective relaying devices. 3,312,864, 4-4-67, Cl. 317—23.

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Schwank, Ludwig, to Siemens-Schuckertwerke Aktiengesellschaft. Process for the producing of gas diffusion electrodes and electrodes made thereby. 3,328,165, 6-27-67, Cl. 75—206.

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Schwartz, Aaron P. Cam lever type floor jack. 3,331,584, 7-18-67, Cl. 254—15.

Schwartz, Alvin. Warp knit fabric with looped yarn surface. 3,349,575, 10-31-67, Cl. 66—86.

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Grosser, Frederick, Hort, and Schwartz. 3,322,730.

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Schwartz, Harold O., and H. M. Thomas, to The Wurlitzer Co. Stop tablet and filter assembly with improved separable resilient positioning means. 3,317,684. 5-2-67, Cl. 200—6.

Schwartz, Harold O., and H. M. Thomas, to The Wurlitzer Co. Key and key mounting structure. 3,330,176, 7-11-67, Cl. 84—433.

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Schwartz, Jacob L., to Shell Oil Co. Container having gear-like corners. 3,307,729, 3-7-67, Cl. 220—1.

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Schwartz, Sidney, to Bantamlite, Inc. Miniature flashlight with integral hinge casing. 3,359,411, 12-19-67, Cl. 240—6.4.

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Schwartz, William H., to Lester Engineering Co. Injection molding machine. 3,335,464, 8-15-67, Cl. 18—30.

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Scoggins, James R., to United States of America, National Aeronautics and Space Administration. Meteorological balloon. 3,340,732, 9–12–67, Cl. 73—189.
Scognamillo, Frank. Rotary machine with end plates sealing blades sliding in slots in a rotor. 3,327,638, 6–27–67, Cl. 103—136.
Scognamillo, Frank. Multiple flow rotary machine. 3,344,745, 10–3–67, Cl. 15—93.
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Scoles, David A., to United States of America, Navy. Vibration isolation means. 3,337,775, 8–22–67, Cl. 317—120.
Scoltock, Brian T.: *See*—
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Sconce, Jerry. Pneumatic splint. 3,338,237, 8–29–67, Cl. 128—87.
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Gerig, John S. 3,319,076.
Williams, Richard E. 3,320,358.
Williams, Richard E. 3,322,891.
Williams, Richard E. 3,347,983.
Williams, Richard E., and Hobos. 3,303,273.
Scopelite, Thomas M., R. G. Hlavacek, and H. P. Bonheimer, to Swift & Co. Method of packaging sausages and apparatus therefor. 3,316,103, 4–25–67, Cl. 99—174.
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Scopp, Howard A., and A. C. Signore, to Monsanto Co. Blending lubricous additives and silica aerogels into polyolefins. 3,324,060, 6–6–67, Cl. 260—23.
Scoppe, Francis E., to Avco Corp. Electromagnetic torquemeter. 3,340,729, 9–12–67, Cl. 73—136.
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Scott, Andrew. Boat trailer. 3,357,581, 12–12–67, Cl. 214—505.
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Miller, Arthur E., and Roland. 3,318,020.
Nelson, James E. 3,347,566.
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Scott, Benjamin B., and K. R. Davis, to General Electric Co. Test sample holding and alinement means for tensile testing machines. 3,309,918, 3–21–67, Cl. 73—103.
Scott, Carl W.: *See*—
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Scott, Carleton B.: *See*—
Sturgess, John B., and Scott. 3,345,773.
Scott, Charles D., and E. Lutzenhiser; 3/16 to L. J. Kottas, 1/4 to S. Copenhauer, and 1/8 to F. Griffin. Live bait container with improved cover. 3,315,402, 4–25–67, Cl. 43—55.
Scott, Charles M., Jr.: *See*—
Kuelbs, Donald R., and Scott. 3,338,105.
Scott Chemical and Welding Products Co., Inc.: *See*—
Bowers, Lester T., and McDonnell. 3,353,970.
Scott, Chester F., to McGraw Edison Co. Attenuator with improved housing structure. 3,303,296, 2–7–67, Cl. 200—11.
Scott, Chester F., to McGraw-Edison Co. Slide attenuator. 3,337,831, 8–22–67, Cl. 338—126.
Scott, Clifford O. Aircraft safety body. 3,337,164, 8–22–67, Cl. 244—119.
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Scott, David B. Drilling apparatus. 3,304,814, 2–21–67, Cl. 77—31.
Scott, Dean P., K. Staugaard, and S. F. Pelowski, to Burroughs Corp. Automatically controlled printer for printing and coding documents. 3,343,482, 9–26–67, Cl. 101—93.
Scott, Donald S.: *See*—
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Scott, Douglas C., to Scott Plastics Corp. Liner for bottle caps. 3,315,831, 4–25–67, Cl. 215—56.
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Scott, Drummond L.: *See*—
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Scott, Edwin M., Jr. Detonatable compositions comprising metal nitrates and mononitroparaffins. 3,301,724, 1–31–67, Cl. 149—62.
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Scott, Elmer E. Oscillating motor. 3,343,012, 9–19–67, Cl. 310—36.
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Scott, Floyd C., to Hustler Corp. Four wheel drive articulated vehicle. 3,360,067, 12–26–67, Cl. 180—51.
Scotti, Frank, and F. L. Andrew, to American Cyanamid Co. Vinyl acetate polymer emulsions containing ethoxylated monoalkyl sulfosuccinate as emulsifiers. 3,329,640, 7–4–67, Cl. 260—29.6.
Scott, Franklin R., and S. P. Cunningham, to General Dynamics Corp. Spectral line profile analyzer. 3,345,906, 10–10–67, Cl. 88—14.
Scott, Frederick B., to Syracuse Supply Co. Conveyor carrier. 3,318,435, 5–9–67, Cl. 198—38.
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Scott, George A., to General Electric Co. Domestic oven with smoke leakage prevention. 3,331,942, 7–18–67, Cl. 219—391.
Scott, George A., and J. K. Newell, Jr., to General Electric Co. Domestic oven with air cooling system. 3,310,046, 3–21–67, Cl. 126—21.
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Scott, Gifford P., to United Shoe Machinery Corp. High response actuators. 3,311,766, 3–28–67, Cl. 310—83.
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Scott, Harold R., to Birmingham Small Arms Ltd. Electrical end switches for use in machine tools. 3,296,392, 1-3-67, Cl. 200—47.
Scott, Harold R., L. A. Davis, and P. J. Fogaty, to The Birmingham Small Arms Co. Ltd. Electrical limit switches. 3,300,598, 1-24-67, Cl. 200—47.
Scott, Harvey, to The Franklin Institute. Polymerization of vinyl amino compounds with π complex-forming electron acceptor compounds. 3,336,279, 8-15-67, Cl. 260—88.3.
Scott, Henry T. Tray and bracket assembly. 3,301,406, 1-31-67, Cl. 211—88.
Scott, Herbert F., Jr., to Allied Chemical Corp. Purification of cyanuric acid. 3,296,262, 1-3-67, Cl. 260—248.
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Scott, James F., to The Perolin Co., Inc. Method for preventing carbonaceous deposits in diesel engines. 3,316,070, 4-25-67, Cl. 44—51.
Scott, John A., to Sinclair Research, Inc. Process for dehydrogenation of ethylbenzene. 3,308,179, 3-7-67, Cl. 260—669.
Scott, John A., to Olin Mathieson Chemical Corp. Brazing flux and method of brazing with same. 3,321,829, 5-30-67, Cl. 29—495.
Scott, John E., and T. R. Thomas, to Sperry Rand Corp. Binary coded signal correlator. 3,346,844, 10-10-67, Cl. 340—146.2.
Scott, John J., and N. C. Turnbull, to Norton Co. Fusion process for production of stoichiometric UO. 3,317,284, 5-2-67, Cl. 23—355.
Scott, John M., to United States of America, Army. Very broadband high power waveguide window. 3,315,188, 4-18-67, Cl. 333—98.
Scott, John N., Jr., to Phillips Petroleum Co. Method for making molded thermoplastic pipe fittings. 3,312,765, 4-4-67, Cl. 264—152.
Scott, John N., Jr., to Phillips Petroleum Co. Process and apparatus for making multiwalled article. 3,322,869, 5-30-67, Cl. 264—90.
Scott, John N., Jr., and D. L. Peters, to Phillips Petroleum Co. Plastic molding. 3,309,443, 3-14-67, Cl. 264—98.
Scott, John W., to Chevron Research Co. Fluidized hydrocracking of residual hydrocarbons. 3,309,305, 3-14-67, Cl. 208—111.
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Scott, Joseph H., Jr., and J. A. Olmstead, to Radio Corp. of America. Semiconductor devices having modifier-containing surface oxide layer. 3,340,445, 9-5-67, Cl. 317—234.
Scott, Joseph J., to American Air & Power Co. Fluid pump device. 3,295,453, 1-3-67, Cl. 103—50.
Scott, Junius D. Silicon controlled rectifier control circuit for reciprocating motors. 3,316,470, 4-25-67, Cl. 318—130.
Scott, Kenneth E., to Geoffrey Benjamin Hern. Multi-storey building framework. 3,305,989, 2-28-67, Cl. 52—295.
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Scott, Lewis, to United States of America, Navy. Rotatably selectable high voltage switch. 3,303,301, 2-7-67, Cl. 200—51.1.
Scott, Louis F. Safety jack for automotive vehicles and the like. 3,353,789, 11-21-67, Cl. 254—88.
Scott, Lyle B., to Byron Jackson, Inc. Method of and apparatus for assisting in the injection of well treating fluids. 3,303,880, 2-14-67, Cl. 166—36.
Scott, Lyle B., to Jackson, Byron, Inc. Bridge plug with compound by-pass valve. 3,314,480, 4-18-67, Cl. 166—121.
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Scott, Morton W., to Warner-Lambert Pharmaceutical Co. Pharmaceutical tablet excipients of solid particles of a binary solid solution of mannitol with a sugar. 3,341,415, 9-12-67, Cl. 167—82.
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Rausch, Clarence W. 3,323,280.
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Bastian, Lehyman J. 3,341,067.
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Faessinger, Robert W., and Conte. 3,359,224.
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Scott, Philip R., Jr., to United States of America, Air Force. Regulated sinusoidal A.C. power supply. 3,336,522, 8-15-67, Cl. 321—18.
Scott Plastics Corp.: *See*—
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Scott, Ray A., to The Coats Co., Inc. Tool holder for tire changing stand. 3,339,611, 9-5-67, Cl. 157—1.24.
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Scott, Raymond G., Jr., to Waldorf Paper Products Co. Corrugated paperboard and method of making the same. 3,307,994, 3-7-67, Cl. 156—210.
Scott, Richard: *See*—
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Scott, Richard, to Geigy Chemical Corp. Apparatus for the study of reactions involving the absorption of evolution of gases. 3,323,872, 6-6-67, Cl. 23—255.
Scott, Richard C., to General Electric Co. Method for producing organopolysiloxanes. 3,324,058, 6-6-67, Cl. 260—18.
Scott, Richard D., to Teletype Corp. Error detection and correction system with block synchronization. 3,340,505, 9-5-67, Cl. 340—146.1.
Scott, Richard L., to F. L. Murdock. Vacuum deaerator. 3,347,023, 10-17-67, Cl. 55—193.
Scott, Robert A., R. R. Reese, and D. A. Scott, to Beacon Steel Products Co., Inc. Feeding device. 3,330,255, 7-11-67, Cl. 119—51.11.
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Scott, Robert J., to Rival Mfg. Co. Power pierce arrangement for power operated can opener. 3,315,352, 4-25-67, Cl. 30—4.
Scott, Robert J., to Bird Electronic Corp. Feed-through capacitor. 3,356,916, 12-5-67, Cl. 317—242.
Scott, Robert J., W. A. Chappell, and J. E. Briar, to Rival Mfg. Co. Electric ice crusher. 3,313,493, 4-11-67, Cl. 241—36.
Scott, Robert K., D. O. McCreight, E. Einstein, and C. L. Thompson, to Harbison-Walker Refractories Co. Production of vitreous silica in a rotary kiln. 3,314,758, 4-18-67, Cl. 23—182.
Scott, Robert K., E. Leatham, and E. Einstein, to Harbison-Walker Refractories Co. Production of vitreous silica in a rotary kiln. 3,326,704, 6-20-67, Cl. 106—65.
Scott, Robert M., to The Dow Chemical Co. Method for hyperimmunizing hogs against hog cholera and serum product. 3,297,534, 1-10-67, Cl. 167—80.

Scott, Robert N., to General Motors Corp. Constant velocity universal joint. 3,338,070, 8-29-67, Cl. 64—21.
Scott, Robert W., to The Bendix Corp. High velocity pump. 3,357,361, 12-12-67, Cl. 103—84.
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Searcy, Durward F., and Scott. 3,327,097.
Scott, Vernon B. Process for determining rate of flow of gas through pipelines. 3,303,699, 2-14-67, Cl. 73—194.
Scott, Victor P., to Macomber Inc. Clip for roof deck sheets. 3,302,357, 2-7-67, Cl. 52—520.
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Scott, William J., to Associated Electrical Industries Ltd. Method of producing semiconductor devices by employing vitreous material. 3,303,068, 2-7-67, Cl. 148—177.
Scott, William J., and N. R. Howard, to Associated Electrical Industries Ltd. Waveguide switch with semiconductor in thermal contact with waveguide walls. 3,346,825, 10-10-67, Cl. 333—98.
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Millington, Brian W., Scott, and Freese. 3,342,422.
Scott, William M., to Ricardo & Co., Engineers (1927) Ltd. Fuel injection apparatus for internal combustion engines. 3,332,407, 7-25-67, Cl. 123—140.
Scott, William M., B. W. Millington, and R. G. Freese, to Ricardo & Co., Engineers (1927) Ltd. Fuel injection apparatus for internal combustion engines. 3,332,408, 7-25-67, Cl. 123—140.
Scott, William P., to Continental Oil Co. Foam inhibition. 3,344,075, 9-26-67, Cl. 252—75.
Scott, William P., to Continental Oil Co. Lithium soap greases containing a rust inhibitor. 3,355,384, 11-28-67, Cl. 252—36.
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Scott & Williams, Inc.: *See*—
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Currier, John A. 3,340,706.
Currier, John A. 3,340,707.
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Burbank, John E. 3,316,870.
Burbank, John E. 3,320,645.
Burbank, John E. 3,328,857.
Christensen, Arthur C. 3,307,259.
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Daddona, Domenic J., Jr. 3,333,304.
Daddona, Domenic J., Jr. 3,333,306.
Daddona, Domenic J., Jr. 3,355,780.
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Hansen, John M. 3,339,282.
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Hansen, John M. 3,359,637.
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Taylor, Donald O. 3,333,305.
Urbush, Richard L. 3,316,576.
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Williams, Selden T. 3,340,894.
Williams, Selden T. 3,358,563.
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Scoville, Ray R. Spring clip terminals. 3,345,606, 10-3-67, Cl. 339—274.
Scoville, Wright A. Tying machine. 3,315,593, 4-25-67, Cl. 100—27.
Scozzafava, Milton V., to Addmaster Corp. Repeat mechanism for calculating machine. 3,331,949, 7-18-67, Cl. 235—60.
Scragg, Ernest P. R., and A. Dobson, to Ernest Scragg & Sons (Holdings) Ltd. False twisting devices for textile yarns and the like. Re. 26,229, 6-27-67, Cl. 57—77.45.
Scragg, Ernest, & Sons (Holdings) Ltd.: *See*—
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Screw Machine Products Co.: *See*—
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Sell, Christian A., R. H. Boschan, and J. P. Holder, to Douglas Aircraft Co., Inc. Polyfluorinated phosphate esters. 3,308,208, 3–7–67, Cl. 260—955.

Sell, Christian A., R. H. Boschan, and J. P. Holder, to McDonnell Douglas Corp. Polyfluorinated phosphonate esters. 3,337,655, 8–22–67, Cl. 260—955.

Sell, Christian A., R. H. Boschan, and J. P. Holder, to McDonnell Douglas Corp. Polyfluophenyl phosphate esters. 3,341,631, 9–12–67, Cl. 260—955.

Sellenbinder, Richard W.: *See*—
Harkness, Joseph R., Sellenbinder, and Santi. 3,306,276.

Seiler, Fritz, to Edouard Dubied et Cie (Societe Anonyme). Cam-box for a jacquard flat knitting machine. 3,304,748, 2–21–67, Cl. 66—64.

Seiler, Fritz, to Edouard Dubied et Cie, (Societe Anonyme). Knitting machine. 3,307,376, 3–7–67, Cl. 66—70.

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Selm, Henry J., J. P. Murdock, and T. L. Larson, to Allis-Chalmers Mfg. Co. Fuel cell electrodes comprising mixtures of silver, nickel, molybdenum and nickel-phosphorus alloys and method of making same. 3,356,536, 12–5–67, Cl. 136—86.

Selner, Jerome A., to Pittsburgh Plate Glass Co. Storage stable isocyanate-modified drying oil and drying oil-alkyd compositions and process for preparation thereof. 3,318,828, 5–9–67, Cl. 260—22.

Selner, Jerome A., to Pittsburgh Plate Glass Co. Polymerization method using peroxycarbonate catalyst. 3,326,859, 6–20–67, Cl. 260—72.

Seismograph Service Corp.: *See*—
Crossland, Edward J. 3,321,741.
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Seitter, Karl E. Lathe center. 3,311,006, 3–28–67, Cl. 82—40.

Seitz, Ernst-Otto, V. Schaefer, and J. Schaefer, to Quarzlampen Gesellschaft m.b.H. Surgical illuminating apparatus. 3,360,640, 12–26–67, Cl. 240—1.4.

Seitz, Henry G.: *See*—
Bills, William T., and Seitz. 3,297,511.

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Riat, Henri, and Seitz. 3,316,239.
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Seitzinger, Vaughn F., to United States of America, National Aeronautics and Space Administration. Unfired-ceramic flame-resistant insulation and method of making the same. 3,296,060, 1–3–67, Cl. 161—115.

Seiwert, Joseph J., and J. B. Boylan, to Emery Industries, Inc. Urethane coatings from hydroxyl terminated polyesters prepared from dimer acids. 3,349,049, 10–24–67, Cl. 260—22.

Seiz, Edward A. Storage racks. 3,337,062, 8–22–67, Cl. 211—176.

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Sejda, Henry J., to Cee-Kay Industries, Inc. Apparatus for wrapping tape about an elongate article. 3,321,352, 5–23–67, Cl. 156—468.

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Seki, Asao: *See*—
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Seki, Hajime, and D. P. Seraphim, to International Business Machines Corp. Interconnection arrangement for integrated circuits. 3,312,871, 4–4–67, Cl. 317—101.

Seki, Shigeo, B. Nomiya, and H. Ogawa, to Meiji Seika Kaisha, Ltd. Halopropargyl aryl ether compounds. 3,322,813, 5–30–67, Cl. 260—465.

Seki, Shigeo, F. Kai, and H. Ogawa, to Meiji Seika Kaisha, Ltd. Iodopropargyl aralkyl ether compounds. 3,338,950, 8–29–67, Cl. 260—465.

Seki, Takeo, and I. Miwa, to Hitachi, Ltd. Negative impedance bridge-type frequency modulation reception system. 3,332,025, 7–18–67, Cl. 329—119.

Seki, Takeo, S. Tauchi, and T. Takagi, to Kabushiki Kaisha Hitachi Seisakusho. Method of making semiconductor devices by double masking. 3,342,650, 9–19–67, Cl. 148—187.

Seki, Teruya, M. Komatsu, Y. Watanabe, M. Sasajima, and Y. Matsuda, to Taisho Pharmaceutical Co., Ltd. Benzimidazole derivatives. 3,341,535, 9–12–67, Cl. 260—247.1.

Sekiguchi, Toshishige, and M. Saba, to Japan Drive-It Co., Ltd. Explosively actuated fastener driving tool. 3,302,840, 2–7–67, Cl. 227—8.

Sekimoto, Tadahiro, and H. Kaneko, to Nippon Electric Co. Ltd. Time-division radio relay communication system. 3,320,611, 5–16–67, Cl. 343—6.5.

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Namikawa, Mamoru, and Sekine. 3,295,781.

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Chloupek, LeRoy A., and Sekmakas. 3,318,971.

Sekmakas, Kazys, to De Soto, Inc. Pigmented dispersion containing binder of unsaturated oxirane, ethyl acrylate, methyl methacrylate emulsion copolymer. 3,350,339, 10–31–67, Cl. 260—29.6.

Sekmakas, Kazys, to Desoto, Inc. Production of hydroxy-containing copolymers by slurry copolymerization of dicarboxylic acids in the presence of a monoepoxide. 3,352,827, 11–14–67, Cl. 260—72.

Sekmakas, Kazys, to DeSoto, Inc. Copolymers containing heterocyclic unsaturated amino alcohols. 3,356,653, 12–5–67, Cl. 260—78.5.

Sekmakas, Kazys, to DeSoto, Inc. Copolymers of hydroxy derivatives of cyclic unsaturated amino acids. 3,356,654, 12–5–67, Cl. 260—78.5.

Sekmakas, Kazys, to DeSoto, Inc. Copolymers of ethylenically unsaturated hydroxy-functional amines. 3,356,655, 12–5–67, Cl. 260—78.5.

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Williams, Arthur. 3,322,181.
Williams, John R. 3,315,726.

Selber, Franklin N., to United States of America, Army. Negative resistance devices. 3,341,839, 9–12–67, Cl. 340—347.

Selby Myron C., to United States of America, Commerce. Coaxial transmission line T-junction having rectangular passageway dimensioned beyond cutoff for higher order modes. 3,354,411, 11–21–67, Cl. 333—6.

Selby, Richard N., to E. I. du Pont de Nemours and Co. Terpolymer containing methyl methacrylate, 2-ethylhexyl acrylate and methacrylic acid and compositions containing same. 3,317,493, 5–2–67, Cl. 260—80.5.

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Seley, Lyman O. Popcorn dispenser. 3,311,992, 4–4–67, Cl. 34—57.

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Self, Dolty R., to United States of America, Army. Switching drum catch and trip device. 3,357,261, 12–12–67, Cl. 74—1.5.

Self, James L. Processing of shrimp and the like. 3,296,656, 1–10–67, Cl. 17—45.

Self, Richard W., J. C. Watkins, Jr., and J. K. Sullins, to The Mead Corp. Process for control of micro-organisms in process streams. 3,328,294, 6–27–67, Cl. 210—62.

Self, Tom J., Jr.: *See*—
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Selfix, Inc.: *See*—
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Selfridge, Frank W., to J. M. Huber Corp. Process and apparatus for producing carbon black. 3,340,010, 9–5–67, Cl. 23—209.4.

Selhost, Dale L., and J. P. Warner, to American Air Filter Co., Inc. Air-conditioning control system. 3,332,475, 7–25–67, Cl. 165—16.

Selig, Guenther, to Digit Display Corp. Modular time and temperature display with cam controlled switching apparatus. 3,358,277, 12–12–67, Cl. 340—338.

Selig, James H., to Oldberg Mfg. Co. Muffler with spaced concentric tubular members. 3,315,761, 4–25–67, Cl. 181—48.

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Seliger, Victor H., and R. Y. Paradise, to General Precision Inc. Voltage to pulse frequency converter. 3,309,603, 3–14–67, Cl. 321—60.

Seliger, Victor H., and A. F. Wermund, to United States of America, Air Force. Drift compensation computer. 3,349,630, 10–31–67, Cl. 74—5.34.

Seligman, Robert B.: *See*—
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Selin, Terry G.: *See*—
Prescott, Paul I., and Selin. 3,317,578.
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Selinder, Eric P., to Honeywell Inc. Control device mounting. 3,332,648, 7–25–67, Cl. 248—27.

Selinsky, Philip M. Film slide projector disc. 3,325,932, 6–20–67, Cl. 40—70.

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Selker, Eugene I. Baseball gameboard. 3,355,173, 11–28–67, Cl. 273—89.

Selker, Milton L., and P. P. Zapponi, to Clevite Harris Products, Inc. Lubricated rubber bearing. 3,300,257, 1–24–67, Cl. 308—36.1.

Sell, George J., to Trusteel Corp. (Universal) Ltd. Concrete building structures with pre-laminated plaster board facing sheets. 3,344,572, 10–3–67, Cl. 52—426.

Sell, Heinz G.: *See*—
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Selleck, Edward J. Hub cap and wheel locking device. 3,336,771, 8–22–67, Cl. 70—259.

Selleck, Edward J. Safety hub cap and locking device. 3,352,133, 11–14–67, Cl. 70—259.

Selleck, Marion P. Disposable lip-cosmetic applicator. 3,308,837, 3–14–67, Cl. 132—88.7.

Selleck, Robert W.: *See*—
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Selleck, Robert W. Drawing compass. 3,313,028, 4–11–67, Cl. 33—156.

Selleck, Robert W. Elevation measuring instrument. 3,330,045, 7–11–67, Cl. 33—209.

Sellen, Carl R., and F. Collura, to Keuffel & Esser Co. Tape clamp. 3,329,045, 7–4–67, Cl. 81—3.

Sellen, Carl R., W. A. Neithardt, W. J. Drexler, and F. Collura, to Keuffel & Esser Co. Lettering set. 3,338,389, 8–29–67, Cl. 206—16.

Sellen, Carl R., and F. Collura, to Keuffel & Esser Co. Measuring tape device. 3,347,487, 10–17–67, Cl. 242—84.8.

Sellen, John M., Jr.: *See*—
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Sellenraad, Christoffel, and G. J. Berns, to North American Philips Co. Lighting fitting. 3,355,583, 11–28–67, Cl. 240—128.

Sellers, Donald F.: *See*—
Fraiser, Hulin R., Jr., and Sellers. 3,323,377.

Sellers, Harold M. Chewing gum containing gas and a medicament. 3,316,154, 4–25–67, Cl. 167—82.

Sellers, Harvey A., Jr. Glider kite. 3,305,198, 2-21-67, Cl. 244—153.

Sellers, Henry G., Jr., to Tenneco Chemicals, Inc. Process for decolorizing dipentene polymers. 3,326,876, 6-20-67, Cl. 260—933.

Sellers, Henry G., Jr., to Tenneco Chemicals Corp. Process for treating dipentene polymers. 3,359,250, 12-19-67, Cl. 260—93.3.

Sellers, Henry G., Jr., and H. E. McLaughlin, to Tenneco Chemicals, Inc. Production of terpene resins. 3,297,673, 1-10-67, Cl. 260—93.3.

Sellers, Howard E. Tire carrier. 3,343,736, 9-26-67, Cl. 224—42.06.

Sellers Mfg. Co., Inc.: *See*—
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Welch, John L., Jr., Sellers, and Madden. 3,342,918.

Sellers, Ralph F., S. G. Smith, Jr., and A. S. Burhans, to Union Carbide Corp. Glycidyl ethers. 3,322,908, 7-25-67, Cl. 260—47.

Sellers, W. R.: *See*
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Sellers, William D.: *See*—
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Sellesi, Licio. Removable holder for mops and the like. 3,328,822, 7-4-67, Cl. 15—151.

Sellet, Lucien, to Nopco Chemical Co. Amphoteric resins prepared by condensing alkali metal salts of sulfomethyl dicyandiamide with formaldehyde. 3,300,446, 1-24-67, Cl. 260—69.

Sellet, Lucien, to Nopco Chemical Co. Condensate prepared by reacting formaldehyde with a reaction product of ammonia and a linear polymer containing equimolar amounts of maleic anhydride and at least one other ethylenically unsaturated monomer. 3,317,476, 5-2-67, Cl. 260—72.

Sellet, Lucien, to Nopco Chemical Co. Amphoteric resinous condensation products prepared by reacting HCHO with the reaction product of a water-soluble anionic linear copolymer and dicyan diamide compounds. 3,322,726, 5-30-67, Cl. 260—69.

Sellet, Lucien, to Nopco Chemical Co. Antistatic polymeric materials containing ethylene oxide condensation products of phenolic derivatives. 3,333,983, 8-1-67, Cl. 117—139.5.

Sellet, Lucien, to Nopco Chemical Co. Treating agents, their preparation and their use. 3,334,072, 8-1-67, Cl. 260—78.5.

Sellet, Lucien, to Nopco Chemical Co. Condensates of amino-plast-sulfonated phenolic compounds. 3,340,215, 9-5-67, Cl. 260—29.4.

Sellet, Lucien, to Nopco Chemical Co. Resinous condensates. 3,340,237, 9-5-67, Cl. 260—78.4.

Sellman, Karl E. T., to Lennart Reinhold Kalb. Strapping apparatus for packing straps. 3,327,619, 6-27-67, Cl. 100—29.

Sellner, John W. Combined reclining, exercising and massaging device. 3,315,666, 4-25-67, Cl. 128—25.

Sello, Stephen B.: *See*—
Tesoro, Giuliana C., and Sello. 3,338,883.

Sellors, Thomas J., to The Finn Industries. Carton having an integrally formed measuring device therein. 3,298,576, 1-17-67, Cl. 222—456.

Selman, Stanley: *See*—
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Selman, Stanley, to E. I. du Pont de Nemours and Co. Perfluoropropyruvyl fluoride and process. 3,321,517, 5-23-67, Cl. 260—544.

Selman, Stanley, to Ethicon, Inc. Preparation of optically active lactides. 3,322,791, 5-30-67, Cl. 260—340.2.

Selman, Stanley, and E. N. Squire, to E. I. du Pont de Nemours and Co. Perfluoro(2-methylene-4-methyl-1,3-dioxolane) and polymers thereof. 3,308,107, 3-7-67, Cl. 260—87.5.

Selman, Stanley, and W. S. Smith, Jr., to E. I. du Pont de Nemours and Co. Hydrogen capped fluorocarbon polyethers. 3,342,875, 9-19-67, Cl. 260—615.

Sel-Mar, Inc.: *See*—
Voorhees, John A., and Baylor. 3,306,297.

Selmeczi, Joseph G., and E. C. Drews, to General Ionics Corp. Water treating apparatus with agent-adding dispenser. 3,342,338, 9-19-67, Cl. 210—191.

Selnes, Norman W. Accessory bag and ski boot tree. 3,297,219, 1-10-67, Cl. 224—45.

Selover, Roy U., Jr.: *See*—
Kelley, Gerald L., and Selover. 3,309,791.

Selover, Theodore B., Jr.: *See*—
Rightmire, Robert A., and Selover. 3,335,025.

Sel-Rex Corp.: *See*—
Danemark, Marius, Rochat, Steiner, and Zwerner. 3,297,380.
Foulke, Donald G. 3,318,711.

Sels, Francis J.: *See*—
Willems, Jozef F., Sevens, and Sels. 3,311,474.

Sels, Robert L., to Western Electric Co., Inc. Heat control circuit generating pulses synchronized to A.C. source employing the PNPN diodes having different threshold values. 3,296,419, 1-3-67, Cl. 219—499.

Sels, Robert L., and G. F. Stetzler, to Western Electric Co., Inc. Apparatus employing a voltage difference capacitor network for measuring the hold current of negative resistance devices. 3,333,195, 7-25-67, Cl. 324—158.

Selsted, Walter T., and W. I. Girdner, to Hewlett-Packard Co. Tape recording and reproducing apparatus. 3,295,780, 1-3-67, Cl. 242—55.12.

Selsted, Walter T., and W. I. Girdner, to Hewlett-Packard Co. Centrifugally released clutch. 3,298,490, 1-17-67, Cl. 192—104.

Seltman, Paul R., to Crescent Paper Tube Co., Inc. Corner post. 3,315,867, 4-25-67, Cl. 229—14.

Seltman, Paul R., to Crescent Paper Tube Co., Inc. Container with corner posts. 3,341,106, 9-12-67, Cl. 229—49.

Seltorp, Leonard J. Heterogeneous nuclear reactor and fuel element therefor. 3,350,272, 10-31-67, Cl. 176—32.

Seltzer, Fred P. Bread dicer. 3,318,352, 5-9-67, Cl. 146—150.

Seltzer, Harry. Plugging device. 3,307,731, 3-7-67, Cl. 220—24.5.

Seltzer, Ira R. Device for removing and installing tubular lamps. 3,329,459, 7-4-67, Cl. 294—20.

Seltzer, Norman L., to The Kendall Co. Diaper having multilayer and single layer fabric sections with similar warp end count. 3,315,675, 4-25-67, Cl. 128—284.

Seltzer, Norman L., to The Kendall Co. Diaper contoured by shrinking. 3,339,548, 9-5-67, Cl. 128—284.

Selvin, Manuel, and F. S. Preston, to United Aircraft Corp. Automatic terrain avoidance system. 3,302,198, 1-31-67, Cl. 343—7.

Selwitz, Charles M.: *See*—
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Clement, William H., Peters, and Selwitz. 3,317,624.
Clement, William H., Peters, and Selwitz. 3,318,969.
Clement, William H., Peters, and Selwitz. 3,322,844.
Clement, William H., and Selwitz. 3,303,020.

Selwitz, Charles M., to Gulf Research & Development Co. 5-phenyl-5 lower alkyl pentane-1,2,3,4 tetracarboxylic acids and anhydrides. 3,297,723, 1-10-67, Cl. 260—347.3.

Selwitz, Charles M., to Gulf Research & Development Co. Oxidation of benzene to phenol. 3,360,572, 12-26-67, Cl. 260—621.

Selwitz, Charles M., and E. R. Tucci, to Gulf Research & Development Co. Preparation of an aromatic ester from an alkylaromatic compound and a carboxylic acid in the presence of a tetravalent cerium salt and an inhibitant. 3,346,622, 10-10-67, Cl. 260—488.

Selwitz, Charles M., and E. R. Tucci, to Gulf Research & Development Co. Condensation and oxidation of alkyl-aromatic compounds with tetravalent cerium compounds as promoters. 3,349,117, 10-24-67, Cl. 260—488.

Selwood, Alan, and W. R. Baker, to British Nylon Spinners Ltd. Detection of tactile surface irregularities on bobbins. 3,307,694, 3-7-67, Cl. 209—88.

Selwood, Peter R., and R. L. Creedon, to William R. Selwood Ltd. Pumps for liquids. 3,307,492, 3-7-67, Cl. 103—223.

Selwood, William R., Ltd.: *See*—
Selwood, Peter R., and Creedon. 3,307,492.

Selwyn, Donald. Receiver apparatus. 3,345,571, 10-3-67, Cl. 325—329.

Selz, Jacques: *See*—
Leostic, Joseph, Babany, Cabet, and Selz. 3,332,019.

Selzer, Eric G.: *See*—
Gabler, Franz, and Selzer. 3,311,927.

Selzer, John V. Auxiliary controllers for warning of malfunction for electrical traffic light systems. 3,336,574, 8-15-67, Cl. 340—41.

Sem, Bjarne. Spray nozzle. 3,304,012, 2-14-67, Cl. 239—400.

Sem, Mathias O., to Electrokemisk A/S. Aluminum electrolytic cell and method of use. 3,322,658, 5-30-67, Cl. 204—67.

Semadeni, Silvio: *See*—
Zuber, Otto, Semadeni, and Moller. 3,357,575.

Seman, Frederick P., D. O. Glenn, and C. Gossey. Filtration means for filter cigarettes. 3,330,284, 7-11-67, Cl. 131—10.5.

Semancik, John R., and W. A. Gallup, to Diamond Alkali Co. Process and laminated structures where the adhesive is the copolymer of vinyl fluoride and another vinyl compound. 3,325,344, 6-13-67, Cl. 161—218.

Semco Twist Drill and Tool Co.: *See*—
Stafford, Henry A. 3,312,127.

Semegen, Stephen T.: *See*—
Larner, William H. V., Jr., Reutern, and Semegen. 3,336,183.

Semel S.p.A.: *See*—
Bolognesi, Giampaolo. 3,329,917.

Semenchuk, William F., to Canada Iron Foundries, Ltd. Method of welding ductile iron. 3,301,997, 1-31-67, Cl. 219—137.

Semenhuk, Michael H., to Harris Intertype Corp. Sheet handling apparatus. 3,355,639, 11-28-67, Cl. 317—262.

Semenoff, Robert H.: *See*—
Woolston, Llonel L., Semenoff, and Armstrong. 3,316,807.

Semenoff, Robert H., to United States of America, Navy. Electromagnetic radiation proof bomb-arming device. 3,319,521, 5-16-67, Cl. 89—1.5.

Semeyns de Vries Van Doesburgh, Johan T., and J. J. M. Deumens, to Stamicarbon N.V. Esterification of polyvalent alkanols with nitric acid in liquid sulphur dioxide. 3,316,289, 4-25-67, Cl. 260—467.

Semicon Associates, Inc.: *See*—
Koppius, Otto G. 3,320,091.

Semi-Elements, Inc.: *See*—
Vickery, Ronald C. 3,340,108.
Vickery, Ronald C., and Fisher. 3,320,170.

Semo, Marcel S. Useful power from ocean waves. 3,353,787, 11-21-67, Cl. 253—4.

Semon, Lawrence J. Telephone line testing unit. 3,350,515, 10-31-67, Cl. 179—175.1.

Semones, Donald E., and W. E. Chase, to Battele Memorial Institute. Method of preparing electrodes. 3,355,326, 11-28-67, Cl. 136—86.

Semper, Kenneth D. S., to Hancoch & Co. (Engineers) Ltd. Oxygen jet cutting machines. 3,301,543, 1-31-67, Cl. 266—23.

Semple, Jason V., to Rain Jet Corp. Aerating nozzle. 3,330,486, 7-11-67, Cl. 239—428.5.

Semple, Robert M.: *See*—
Alsop, Charles R., and Semple. Re. 26,194.

Semroc, Charles V., to Pittsburgh Plate Glass Co. Coating composition comprising an alkyd resin, an aminoplast, and an adduct of a hydroxyl-containing polymer and an anhydride of a dicarboxylic acid. 3,329,739, 7-4-67, Cl. 260—850.

Sem-Sandberg, Sverre G.: *See*—
Eriksson, Elof E., and Sem-Sandberg. 3,299,282.

Semsel, Andrew M.: *See*—
Rauhut, Michael M., and Semsel. 3,329,621.

Sen, Nirmal: *See*—
Faulkner, Raymond N., and Sen. 3,354,104.

Sena, Edwin A., to Marathon Oil Co. Process for secondary recovery of petroleum using stabilized microemulsions. 3,307,628. 3-7-67, Cl. 166—9.

Senard, Pierre J. R, to R. Senard et Fils. Bending machines. 3,349,595, 10-31-67, Cl. 72—156.

Senard, R., et Fils: *See*—
Senard, Pierre J. R. 3,349,595.

Senco Products, Inc.: *See*—
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Raser, James H. 3,352,474.

Senda, Kazuo: *See*—
Sasadi, Minoru, Yamamoto, Ichikawa, Ohzeki, Senda, and Masunaka. 3,355,402.

Senda, Shigeo, H. Fujimura, and H. Izumi, to Takeda Chemical Industries, Ltd. Barbituric acid derivatives. 3,324,125, 6-6-67, Cl. 260—257.

Senderoff, Seymour, to Union Carbide Corp. Thermocell battery. 3,311,506, 3-28-67, Cl. 136—86.

Sendish, Otto J. Ottovent shroud system. 3,301,509, 1-31-67, Cl. 244—42.

Sendoykas, Jack J. Toggle clamp. 3,311,367, 3-28-67, Cl. 269—91.

Sendro, George T., to Sigma Instruments, Inc. Condition control galvanometer with photoelectric limit sensing. 3,337,739, 8-22-67, Cl. 250—231.

Sendzimir, Michael G. Backed mill with readily exchangeable working rolls. 3,318,130, 5-9-67, Cl. 72—226.

Sendzimir, Tadeusz. Spiral looper. 3,310,255, 3-21-67, Cl. 242—78.1.

Sendzimir, Tadeusz. Reduction of thick flat articles. 3,333,452, 8-1-67, Cl. 72—184.

Sendzimir, Tadeusz. Control of deflection in rolling mills and the like. 3,355,924, 12-5-67, Cl. 72—241.

Seneca Falls Machine Co.: *See*—
Dinsmore, Arthur S. 3,320,839.
Eisengrein, Robert H., and Blackwell. 3,355,641.

Senecal, Vance E., to E. I. du Pont de Nemours and Co. Die. 3,302,239, 2-7-67, Cl. 18—12.

Senediak, Joseph. Key threading devices. 3,359,581, 12-26-67, Cl. 10—10.

Seneschall, Ronald: *See*—
Keen, John M. S., Poucher, and Seneschall. 3,325,088.

Senese, Oswald: *See*—
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Seney, John S., to E. I. du Pont de Nemours and Co. Light-sensitive switch with feedback. 3,308,304, 3-7-67, Cl. 250—231.

Seney, John S., to E. I. du Pont de Nemours and Co. Photovoltaic cell with wave guide. 3,310,439, 3-21-67, Cl. 136—89.

Seney, John S., to E. I. du Pont de Nemours and Co. Encapsulated electrical component. 3,310,719, 3-21-67, Cl. 317—258.

Seney, John S., to E. I. du Pont de Nemours and Co. Continuous thread tension indicating drive roller. 3,354,711, 11-28-67, Cl. 73—143.

Senez, Claude J. M., to Etablissements Kuhlmann. Process and composition for improving the mechanical properties of flame proofed cellulosic textile materials. 3,323,944, 6-6-67, Cl. 117—136.

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Yarrison, Walter W., Battell, and Senfleben. 3,343,221.

Senft, Frank W., to Pennsylvania Saw Corp. Saw and handle therefor. 3,326,253, 6-20-67, Cl. 145—31.

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Senft, James R., and M. M. Light, to Personal Service Mfg. Corp. Bi-metal motor. 3,355,880, 12-5-67, Cl. 60—23.

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Senior, Henry, and F. A. Howlett, to Bakelite Xylonite Ltd. Injection blow molding machine. 3,305,890, 2-28-67, Cl. 18—5.

Seniuta, John. Machine for making looping points. 3,315,710, 4-25-67, Cl. 140—1.

Senkbeil, Herman O.: *See*—
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Senkbeil, Herman O., to The Dow Chemical Co. O-alkyl N,N'-dialkyl phosphorodiaminodithioates. 3,309,429, 3-14-67 Cl. 260—959.

Senkbeil, Herman O., and K. C. Kauer, to The Dow Chemical Co. Method for the manufacture of S-substituted phosphorodichloridothioates. 3,337,658, 8-22-67, Cl. 260—989.

Senkewich, Alexander M., 5% to J. M. Hellman, and 5% to M. Kingston. Windshield wiper with hot air. 3,321,792, 5-30-67, Cl. 15—250.04.

Senkingwerk: *See*—
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Sennello, Joseph J., and H. J. Keinanen, to Continental Can Co., Inc. Welding control circuit. 3,354,287, 11-21-67, Cl. 219—110.

Sennewald, Kurt, W. Vogt, J. Kandler, and R. Sommerfeld, to Knapsack Aktiengesellschaft. Process for isolating hydrocyanic acid or mixtures of hydrocyanic acid with nitriles from gas mixtures containing ammonia. 3,305,308, 2-21-67, Cl. 23—151.

Sennewald, Kurt, W. Vogt, H. Erpenbach, and H. Joest, to Knapsack-Griesheim Aktiengesellschaft. Process for the manufacture of 1,2-dicyanocyclobutanes. 3,316,288, 4-25-67, Cl. 260—464.

Sennewald, Kurt, W. Vogt, A. Ohorodnik, and H. Vierling, to Knapsack Aktiengesellschaft. Process for the manufacture of unsaturated nitriles. 3,324,166, 6-6-67, Cl. 260—465.3.

Sennewald, Kurt, W. Vogt, and H. Erpenbach, to Knapsack-Griesheim Aktiengesellschaft. Process for separating acrylonitrile and hydrocyanic acid from mixtures by distillation with phenothiazine and phosphoric acid. 3,329,582, 7-4-67, Cl. 203—6.

Sennewald, Kurt, W. Vogt, H. Erpenbach, and H. Joest, to Knapsack Aktiengesellschaft. Process for the continuous manufacture of substantially acetic acid-containing mixtures of low molecular weight fatty acids by paraffin oxidation. 3,335,160, 8-8-67, Cl. 260—451.

Sennewald, Kurt, H. Erpenbach, H. Gudernatsch, and W. Vogt, to Knapsack-Griesheim Aktiengesellschaft. Process for the manufacture of 1,2-diaminomethylcyclobutane. 3,346,637, 10-10-67, Cl. 260—563.

Sennewald, Kurt, and P. Wirtz, to Knapsack Aktiengesellschaft. Process for isolating and purifying 1-cyanobutadiene-(1,3) by plural stage distillation in the presence of nitrogen oxide. 3,354,054, 11-21-67, Cl. 203—8.

Sennewald, Kurt, W. Vogt, H. Weiden, K. Kaiser, and P. Komischke, to Knapsack Aktiengesellschaft. Purification of 1,3-dichloro-butene-(2) by plural stage vacuum distillation. 3,354,055, 11-21-67, Cl. 203—8.

Sennewald, Kurt, A. Ohorodnik, and W. Vogt, to Knapsack Aktiengesellschaft. Process for the manufacture of acrolein. 3,359,325, 12-19-67, Cl. 260—604.

Sennewald, Kurt, A. Hauser, and W. Lork, to Knapsack Aktiengesellschaft. Process for the manufacture of cyanoacetic acid esters. 3,360,540, 12-26-67, Cl. 260—464.

Sennhenn, Emil, and H. Horneff, to Fernseh G.m.b.H. Transistor clamp circuit for altering the direct current component of a television signal. 3,315,033, 4-18-67, Cl. 178—7.1.

Senour, Donald A.: *See*—
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Senour, Donald A., to BLH Electronics, Inc. Non-linearity-compensated strain gage instrumentation. 3,350,927, 11-7-67, Cl. 73—88.5.

Sensatronics, Inc.: *See*—
Oppenheimer, Gene A. 3,360,607.

Senseman, Paul S. Lighted automobile wheel cap apparatus and assembly method. 3,340,389, 9-5-67, Cl. 240—8.12.

Senser, Karl E., to Sears Roebuck and Co. Jacket closure. 3,335,425, 8-15-67, Cl. 2—96.

Senshu, Hisashi, to Mitsubishi Chemical Industries Ltd. Process for the production of naphthalic acid derivatives. 3,308,127, 3-7-67, Cl. 260—281.

Senshu, Hisashi, and M. Yamashita, to Mitsubishi Chemical Industries, Ltd. Naphthalimide whitening agents and method of making same. 3,330,834, 7-11-67, Cl. 260—281.

Sensi, John E., and W. F. Caley, to Pittsburgh Plate Glass Co. Method of forming a glass ribbon on a gas support bed. 3,355,275, 11–28–67, Cl. 65—99.
Sensi, Piero: *See*—
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Craveri, Renato, Coronelli, and Sensi. 3,300,379.
Gallo, Gian G., Sensi, and Pasquinucci. 3,303,202.
Maggi, Nicola, and Sensi. 3,342,810.
Maggi, Nicola, and Sensi. 3,349,082.
Sensi, Piero, and M. P. Timbal, to Lepetit S.p.A. Antibiotic. 3,301,753, 1–31–67, Cl. 167—65.
Sensi, Piero, and C. Coronelli, to Lepetit S.p.A. Phenoxymethylpenicillin carbo ter-butoxymethoxyamide. 3,306,895, 2–28–67, Cl. 260—239.1.
Sensi, Piero, and N. Maggi, to Lepetit S.p.A. Rifamycin B derivatives and method of producing same. 3,313,804, 4–11–67, Cl. 260—239.5.
Sensibar, Jacob R., and A. E. Petkus, to Construction Aggregates Corp. Method of constructing an earthen dike and combination trenching and back-filling machine therefor. 3,331,209, 7–18–67, Cl. 61—31.
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Sensi-Products, Inc.: *See*—
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Senter, Harold H., to Plastic and Rubber Products Co. Shaft bearing with removable bearing insert. 3,302,988, 2–7–67, [illegible] 308—238.
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Sents, Adam J., to The Barth Corp. Encapsulated pressure regulator for liquid dispenser. 3,319,829, 5–16–67, Cl. 222—5.
Sents, Adam J., to The Barth Corp. Spud lock for liquid dispenser. 3,334,958, 8–8–67, Cl. 292—257.
Senyi, Michael, to Liquicos Diversificados, S.A. Fish stick water and molasses fermented with yeast to prepare a feed supplement. 3,329,504, 7–4–67, Cl. 99—9.
Sepall, Ola, and R. C. Buser, to Anglo Paper Products, Ltd. Production of chlorine dioxide. 3,347,628, 10–17–67, Cl. 23—121.
Sepanski, Russell J. Baby bottle holder. 3,298,648, 1–17–67, Cl. 248—108.
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Sequeira, Manuel A. Automobile ashtray type cleaner. 3,351,068, 11–7–67, Cl. 15—242.
Sequeira, Peter J. L. Multiple inserting apparatus. 3,327,930, 6–27–67, Cl. 53—123.
Seraun, Frank G.: *See*—
Dodson, Vance H., Jr., and Seraun. 3,329,517.
Serando, Giuseppe. Apparatus for applying and copying particularly suitable for course lathes. 3,288,262, 1–27–67, Cl. 82—24.
Serapioni, Arnoso, to G. D. Societa in Accomandita Semplice di Enzo Serapioni e Arnoldo Serapioni. Device for repacking the oils and boards the hand or cellophane or the like, as well as discarding the defective products in cellophane wrapping machines. 3,318,066, 5–9–67, Cl. 53—64.
Serapioni, Arnoso, Arnoldo Serapioni and Enzo Serapioni. Machine for inserting articles into containers, and the like. 3,342,004, 9–19–67, Cl. 53—24.
Serapioni, Arnoso, Mechanism for conveying articles from one machine to another, with a store automatically acting as gap, particularly adapted for automatic wrapping machines and the like. 3,342,350, 9–19–67, Cl. 214—16.
Serapioni, Arnoso, to G. D. Societa in Accomandita Semplice di Enzo Serapioni e Arnoldo Serapioni. Transfer mechanism of articles travelling from a delivery machine to a receiving machine. 3,350,000, 10–31–67, Cl. 198—34.
Serapioni, Arnoso, e Serapioni, Enzo, e di Societa in Accomandita Semplice di Se[illegible]
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Serapioni, Enzo: *See*—
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Serapioni, Paolo: *See*—
White, Edward J., Serapioni, and Stern. 3,300,442.
Serapioni, Paolo P. de, and White, E. J. C. Card, de Circolazione package. 3,329,261, 7–4–67, Cl. 206—65.2.
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Serapioni, Ronald P., and Serapioni. 3,318,066.
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Serbo, Frank C. A. [illegible]ying, and A. F. Drake, to Sturtevant Mill Co. Vacuum sparking mechanism with conical barrier element. 3,309,212, 3–14–67, Cl. 209—136.
Serbo, Isao, L. Davids, and [illegible] Sekretary Hydrogenerics Degassed Technics Corp. Cl. Nitrilary Hydrogenerics Degassed Technics Corp. 3,312,694, 4–4–67, Cl. 260—[illegible]
Serbo, George, and W. W. Hewitt, to Cross-Cramer Co. Cleaning cleaner for bowls. 3,304,579, 2–21–67, Cl. 15—12.
Serbo, George, and W. W. Hewitt, to Cross-Cramer Co. Process for cleaning automatic [illegible] vibrating machines. 3,305,184, 2–21–67, Cl. 242—55.3.
Serge Elevator Co., Inc.: *See*—
Bagnasco, Gino. 3,297,110.
Sergeys, Francis J., P. K. Maher, W. S. Briggs, and C. V. McDaniel. Method of treating exhaust gases. 3,346,328, 10–10–67, Cl. 23—2.
Sergovic, John A., to The Burns & Russell Co. Method of producing cast surfaces and product obtained thereby. 3,328,231, 6–27–67, Cl. 161—162.
Serio, Anthony W. Pouring top assembly for containers. 3,306,505, 2–28–67, Cl. 222—465.
Serio, Anthony W. Detachable handle apparatus. 3,306,648, 2–28–67, Cl. 294—16.
Serio, James W. Handle apparatus. 3,312,495, 4–4–67, Cl. 294—31.2.
Sermet, Andre. Garage with movable supports. 3,333,714, 8–1–67, Cl. 214—16.1.
Sermon, George T., and T. J. Lescelius, to Carbond Corp. Abrasive tools and methods of making such tools. 3,309,183, 3–14–67, Cl. 51—298.
Serniuk, George E., J. Rehner, Jr., and P. E. Wei, to Esso Research and Engineering Co. Cross-linking agents. 3,329,647, 7–4–67, Cl. 260—41.
Serniuk, George E., P. E. Wei, and J. Rehner, Jr., to Esso Research and Engineering Co. Polymerization initiators consisting of halogenated sulfur containing organic compounds having at least one S(O)$_n$ functional group. 3,337,518, 8–22–67, Cl. 260—87.3.
Serniuk, George E., J. Rehner, Jr., and P. E. Wei, to Esso Research and Engineering Co. Crosslinking polymers with a halogenated sulfur compound. 3,344,123, 9–26–67, Cl. 260—79.3.
Seropian, Edward S. Tape dispenser with coordinated dispensing, sealing and cutting mechanism. 3,306,806, 2–28–67, Cl. 156—523.
Serrano, Jose: *See*—
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Serratto, Angelo. Induction type four-pipe air conditioning system. 3,323,584, 6–6–67, Cl. 165—103.
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Salvadori, Andre, Lovy, and Bergemann. 3,339,134.
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Arquester, William J. 3,335,814.
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Servier, Propex, 74 Boulevard, Seine. Treatment of inflammatory conditions of non-microbial origin with 2-sulfangine. 3,306,815, 2–21–67, Cl. 167—[illegible]
Servis, Richard A. Safety gate. 3,338,280, 8–29–67, Cl. 160—[illegible]
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Sesay, Walter J., and L. H. Shafer, to Union Carbide Corp. Fluid encapsulation product. 3,316,691, 7–2–67, Cl. 53—36.
Sessa, Michael N., and F. Distefano. Dispensing device. 3,340,[illegible] 7–11–67, Cl. 222—182.
Sesso, Louis M.: *See*—
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Rogers, John R., and Sesso. 3,308,078.
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Setnosk, John J., safety device for electrical receptacles [illegible] 3,331,051, 7–11–67, Cl. 339—42.

Seter, Peter K. Vacuum filter assembly. 3,341,023, 9–12–67, Cl. 210—237.
Sethna, Anil M., to Motorola, Inc. Delayed automatic gain control system utilizing the plateau region of an amplifier transistor. 3,341,780, 9–12–67, Cl. 325—405.
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Seto, Toshimichi, to Kabushiki Kaisha Nihon Seiosho and Zaidanhojin Sekitan Sogo Kenkyusho. Continuous feed bottle system for bottle washing machine. 3,311,500, 3–28–67, Cl. 134—23.
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Settimi, Raymond J., to Borg-Warner Corp. Safety belt buckle. 3,353,234, 11–21–67, Cl. 24—230.
Settlage, Paul H., to E. I. du Pont de Nemours and Co. Coated particles of vinylidene chloride copolymers. 3,309,330, 3–14–67, Cl. 260—29.6.
Settlemire, Eugene F. Rolling sales dispensing unit and multiple cash drawer for gasoline stations. 3,348,895, 10–24–67, Cl. 312—212.
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Fisher, Ralph W., Hossfeld, and Settles. 3,295,355.
Setzer, Carl J., to Monsanto Co. Fiber blends. 3,353,345, 11–21–67, Cl. 57—140.
Seufert, Ludwig E., to E. I. du Pont de Nemours and Co. Process for preparing hollow refractory particles. 3,298,842, 1–17–67, Cl. 106—65.
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Seulen, Gerhard, F. Scheffler, and O. Gunsser, to AEG-Elotherm G.m.b.H. & Gebr. Heller Maschinenfabrik G.m.b.H. Method of producing a crankshaft. 3,313,016, 4–11–67, Cl. 29—149.5.
Seulen, Gerhard, and H. Kuhlbars, to Deutsche Edelstahlwerke Aktiengesellschaft Krefeld, and Allgemeine Elektricitats-Gesellschaft. Method of and apparatus for electroinductively heating the chain links of the track chains of caterpillar or track-laying vehicles. 3,336,459, 8–15–67, Cl. 219—10.43.
Seulen, Gerhard W., and J. T. Vaughan, to V & V Companies, Inc. Induction melting furnace. 3,320,348, 5–16–67, Cl. 13—27.
Seulen, Gerhard W., and J. T. Vaughan, to Alco Standard Corp., formerly known as Alco Chemical Corp. Induction melting furnace improvements. 3,335,212, 8–8–67, Cl. 13—27.
Seuntjens, Roland P. Farm gate. 3,303,613, 2–14–67, Cl. 49—131.
Seuthe, Eberhard. Process for producing steam and smoke clouds in a toy. 3,342,746, 9–19–67, Cl. 252—305.
Sev, Alexandre, to CSF-Compagnie Generale de Telegraphie. Stabilized mixer oscillator for wide band television receiver. 3,356,952, 12–5–67, Cl. 325—459.
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Sevebeck, Laurin L.: *See*—
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Sever, Janez F., to Square D Co. Combination terminal block and electrical component assembly. 3,323,021, 5–30–67, Cl. 317—101.
Severance, Glen R., and K. D. Salisbury, to Whirlpool Corp. Dispenser with cleaning means. 3,303,675, 2–14–67, Cl. 68—17.
Severns, William H., Jr., and G. D. Smith, to E. I. du Pont de Nemours and Co. Method of coating metals. 3,331,700, 7–18–67, Cl. 117—22.
Severson, Kermit H. Holder. 3,319,369, 5–16–67, Cl. 40—10.
Severson, Ole C., to The Viking Tool Co. Cutting tool assembly. 3,303,553, 2–14–67, Cl. 29—96.
Severson, Sylvester B., 50% to C. J. Peterson. Bulkhead. 3,311,042, 3–28–67, Cl. 98—6.
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Collins, Donald L. W., and Sevier. 3,326,270.
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Sevison, Luther E. and K. L. 3,311,031.
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Sevy, Robert H., to United States of America, Atomic Energy Commission. Modular flux trap reactor. 3,341,420, 9–12–67, Cl. 176—18.
Seward, Edgar C. Hoisting device. 3,304,061, 2–14–67, Cl. 254—189.
Sewelin, Ernest R., to International Harvester Co. Motor vehicle body mounting means. 3,321,236, 5–23–67, Cl. 296—35.
Sewell, Cyrus G. Grade averaging device. 3,295,758, 1–3–67, Cl. 235—61.
Sewell, Cyrus G. Check writer. 3,296,959, 1–10–67, Cl. 101—80.
Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Connectors. 3,319,214, 5–9–67, Cl. 339—91.
Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Coaxial transmission lines. 3,344,370, 9–26–67, Cl. 333—96.
Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Electrical transmission line. 3,344,371, 9–26–67, Cl. 333—96.
Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Method of manufacturing a coaxial electrical transmission line. 3,349,479, 10–31–67, Cl. 29—600.
Sewell, Donald N., and C. D. Brown, to Dielectric Products Engineering Co., Inc. Electrical transmission line coupling structure. 3,322,444, 5–30–67, Cl. 285—352.
Sewell, Gordon J.: *See*—
Gaynor, Joseph, Metlay, and Sewell. 3,305,361.
Sewell, Robert G. S.: *See*—
Rogers, James W. and B. P., Backman, and Sewell. 3,343,400.
Sewell, Wesley C., to Honeywell Inc. Alteration of a signal's cross over point to effect phase shift. 3,329,888, 7–4–67, Cl. 323—101.
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Sexton, Arthur R., to The Dow Chemical Co. Production of monohalopyridinols. 3,355,456, 11–28–67, Cl. 260—297.
Sexton Can Co., Inc.: *See*—
Sexton, Edward W. 3,355,053.
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Sexton, Edward W., to Sexton Can Co., Inc. Metal can and closure therefor. 3,355,053, 11–28–67, Cl. 220—23.
Sexton, Louis P. Fitted multiple interdental stimulator and method of making same. 3,335,718, 8–15–67, Cl. 128—62.
Sexton, Peter A., to Matthey, Johnson & Co. Ltd. Hydrogen diffusion tubes. 3,312,043, 4–4–67, Cl. 55—158.
Seyferth, Dietmar, to The Dow Chemical Co. Cyclopropyl tin compounds. 3,347,888, 10–17–67, Cl. 260—429.7.
Seyffert, Walter H., III, to Baker Oil Tools, Inc. Subsurface shifting apparatus. 3,335,802, 8–15–67, Cl. 166—226.
Seyfried, Richard F., to The Ohio Crankshaft Co. Automatic temperature control. 3,346,712, 10–10–67, Cl. 219—8.5.
Seyl, Peter, to R. Winkler and K. Dunnebier. Device for distributing work pieces. 3,355,169, 11–28–67, Cl. 271—71.
Seymour, Edgar W.: *See*—
Fowler, Robert Z., and Seymour. 3,321,639.
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Seymour, Samuel L., to Pittsburgh Plate Glass Co. Sheet support apparatus. 3,310,273, 3–21–67, Cl. 248—346.
Seymour, Samuel L., to Pittsburgh Plate Glass Co. Method of and apparatus for shaping glass sheets with opposed pressing members. 3,333,934, 8–1–67, Cl. 65—32.
Seymour, Shaun A., and W. E. James, to Sperry Rand Corp. Silage distributor. 3,357,749, 12–12–67, Cl. 302—60.
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Shackelford, James R., to The B. F. Goodrich Co. Expansible hollow rivet having a polygonal shank. 3,304,830, 2–21–67, Cl. 85—70.
Shackelford, John H., deceased; Maryland National Bank executor. Multiple celled pressure sensitive dental device for measuring relative occlusal pressures. 3,349,489, 10–31–67, Cl. 32—19.

Sensi, John E., and W. F. Galey, to Pittshburgh Plate Glass Co. Method of forming a glass ribbon on a gas support bed. 3,355,275, 11–28–67, Cl. 65—99.

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Maggi, Nicola, and Sensi. 3,349,082.

Sensi, Piero, and M. T. Timbal, to Lepetit S.p.A. Antibiotic. 3,301,753, 1–31–67, Cl. 167—65.

Sensi, Piero, and C. Coronelli, to Lepetit S.p.A. Phenoxymethylpenicillin carbo-ter-butoxymethoxyamide. 3,306,893, 2–28–67, Cl. 260—239.1.

Sensi, Piero, and N. Maggi, to Lepetit S.p.A. Rifamycin B derivatives and method of producing same. 3,313,804, 4–11–67, Cl. 260—239.3.

Sensibar, Jacob R., and A. E. Petkus, to Construction Aggregates Corp. Method of constructing an earthen dike and combination trenching and back-filling machine therefor. 3,331,209, 7–18–67, Cl. 61—31.

Sensing, William J., to General Motors Corp. Vehicle engine coolant condition indicator. 3,302,171, 1–31–67, Cl. 340—57.

Sensi-Tronics, Inc.: *See*—
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Sentinel Distributors, Inc.: *See*—
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Sentz, Adam J., to The Barth Corp. Encapsulated pressure regulator for liquid dispenser. 3,319,829, 5–16–67, Cl. 222—5.

Sentz, Adam J., to The Barth Corp. Spud lock for liquid dispenser. 3,334,938, 8–8–67, Cl. 292—257.

Senyi, Michael, to Liquleos Diversificados, S.A. Fish stick water and molasses fermented with yeast to prepare a feed supplement. 3,329,504, 7–4–67, Cl. 99—9.

Sepall, Ola, and R. C. Buser, to Anglo Paper Products, Ltd. Production of chlorine dioxide. 3,347,628, 10–17–67, Cl. 23—121.

Sepanski, Russell J. Baby bottle holder. 3,298,648, 1–17–67, Cl. 248—103.

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Sequeira, Manuel A. Automobile ashtray pipe cleaner. 3,351,068, 11–7–67, Cl. 131—232.

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Serafino, Giuseppe. Apparatus for engraving and copying particularly suitable for center lathes. 3,298,262, 1–17–67, Cl. 82—14.

Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli & Ariosto Seragnoli. Device for replacing the rolls and jointing the band of cellophane or the like, as well as discarding the defective products in cellophane-wrapping machines. 3,318,066, 5–9–67, Cl. 53—53.

Seragnoli, Ariosto. Article transfer apparatus having automatic storage magazine. 3,340,992, 9–12–67, Cl. 198—24.

Seragnoll, Ariosto. Mechanism for transferring articles from one machine to another, with a store automatically acting as bag, particularly adapted for automatic wrapping machines and the like. 3,342,350, 9–19–67, Cl. 214—16.

Seragnoli, Ariosto, to G. D. Societe in Accomandita Semplice di Enzo Sergnoli e Ariosto Seragnoli. Transfer mechanism for articles travelling from a delivery machine to a reception machine. 3,360,100, 12–26–67, Cl. 198—24.

Seragnoli, Ariosto, & Seragnoli, Enzo, G.D Societa In Accomandlta Semplice Di: *See*—
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Serany, Frank J., Jr.: *See*—
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Serany, Frank J., Jr., and E. J. White, to C. R. Bard, Inc. Catheterization package. 3,329,261, 7–4–67, Cl. 206—63.2.

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Seki. Hajime, and Seraphim. 3,312,871.

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Sereda, Josef. Rocking chair. 3,342,526, 9–19–67, Cl. 297—258.

Sereno, Frank C., A. T. Glynn, and A. T. Drake, to Sturtevant Mill Co. Vacuum aspirator mechanism with conical barrier element. 3,306,443, 2–28–67, Cl. 209—136.

Seres, Jeńo, L. Tardos, and G. P. Leszkovszky, to Chinoin Hyogyszer-és Vegyeszeti Termé-kek Gyara Rt. N-tertiary aminomethyl-succinimides. 3,312,694, 4–4–67, Cl. 260—247.2.

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Seress, George, and W. W. Hewitt, to Parks-Cramer Co. Process for cleaning automatic textile winding machines. 3,305,184, 2–21–67, Cl. 242—35.5.

Serge Elevator Co., Inc.: *See*—
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Serio, Anthony W. **Pouring top assembly for containers. 3,306,505, 2–28–67, Cl. 222—465.**

Serio, Anthony W. **Detachable handle apparatus. 3,306,648, 2–28–67, Cl. 294—16.**

Serio, James W. Handle apparatus. 3,312,495, 4–4–67, Cl. 294—31.2.

Sermet, Andre. Garage with movable supports. 3,333,714, 8–1–67, Cl. 214—16.1.

Sermon, George T., and T. J. Lescelius, to Carbond Corp. Abrasive tools and methods of making such tools. 3,309,183, 3–14–67, Cl. 51—298.

Serniuk, George E., J. Rehner, Jr., and P. E. Wei, to Esso Research and Engineering Co. Cross-linking agents. 3,329,647, 7–4–67, Cl. 260—41.

Serniuk, George E., P. E. Wei, and J. Rehner, Jr., to Esso Research and Engineering Co. Polymerization initiators consisting of halogenated sulfur containing organic compounds having at least one $S(O)_2$ functional group. 3,337,518, 8–22–67, Cl. 260—87.3.

Serniuk, George E., J. Rehner, Jr., and P. E. Wei, to Esso Research and Engineering Co. Crosslinking polymers with a halogenated sulfur compound. 3,344,123, 9–26–67, Cl. 260—79.3.

Seropian, Edward S. Tape dispenser with coordinated dispensing, sealing and cutting mechanism. 3,306,806, 2–28–67, Cl. 156—523.

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Serratore, Joseph: *See*—
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Serratto, Angelo. Induction type four-pipe air conditioning system. 3,323,584, 6–6–67, Cl. 165—103.

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Servade Mfg. Corp., Ltd.: *See*—
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Cordary, Bruce J., and Weber. 3,295,604.
Van Note, Charles O., Jr. 3,322,199.

Servel, Inc.: *See*—
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Service National dit: Gaz de France: *See*—
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Servier, Jacques, to Biofarma, Seine. Treatment of inflammatory conditions of non-microbial origin with fusafungine. 3,305,445, 2–21–67, Cl. 167—58.

Servis, Richard A. Safety gate. 3,338,290, 8–29–67, Cl. 160—238.

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Gallagher, Cornelius A. 3,359,417.
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Stephenson, Norman D. 3,357,759.

Servonic Instruments, Inc.: *See*—
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Sesco, Wayne, Jr. Puppet equipped protective cloth for use on children. 3,308,479, 3–14–67, Cl. 2—50.

Sesny, Walter J., and L. H. Shaffer, to Union Carbide Corp. Fluid encapsulation product. 3,316,691, 5–2–67, Cl. 55—66.

Sessa, Michael N., and F. DiStefano. Dispensing device. 3,346,145, 10–10–67, Cl. 222—162.

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Sessody, Donald W., to Applied Power Industries, Inc. Reciprocating liquid pump. 3,327,639, 6–27–67, Cl. 103—153.

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Setecka, John C. Safety device for electrical receptacles. 3,317,881, 5–2–67, Cl. 339—42.

Seter, Peter K. Vacuum filter assembly. 3,341,023, 9–12–67, Cl. 210—237.

Sethna, Anil M., to Motorola, Inc. Delayed automatic gain control system utilizing the plateau region of an amplifier transistor. 3,341,780, 9–12–67, Cl. 325—405.

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Seto, Toshimichi, to Kabushiki Kaisha Nihon Seiosho and Zaidanhojin Sekitan Sogo Kenkyusho. Continuous feed bottle system for bottle washing machine. 3,311,500, 3–28–67, Cl. 134—23.

Settele, Walter: *See*—
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Settele, Walter G., to Societe de la Vicose Suisse. Process for the manufacture of spontaneously crimping composite filaments. 3,297,807, 1–10–67, Cl. 264—171.

Settlani, Raymond J., to Borg-Warner Corp. Safety belt buckle. 3,353,234, 11–21–67, Cl. 24—230.

Settlage, Paul H., to E. I. du Pont de Nemours and Co. Coated particles of vinylidene chloride copolymers. 3,309,330, 3–14–67, Cl. 260—29.6.

Settlemire, Eugene F. Rolling sales dispensing unit and multiple cash drawer for gasoline stations. 3,348,895, 10–24–67, Cl. 312—212.

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Setzer, Carl J., to Monsanto Co. Fiber blends. 3,353,345, 11–21–67, Cl. 57—140.

Seufert, Ludwig E., to E. I. du Pont de Nemours and Co. Process for preparing hollow refractory particles. 3,298,842, 1–17–67, Cl. 106—65.

Seufert, Ludwig E., and H. Talsma, to E. I. du Pont de Nemours and Co. Process for forming a refractory coating on aluminum. 3,311,488, 3–28–67, Cl. 117—23.

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Seulen, Gerhard, F. Scheffler, and O. Gunsser, to AFG-Elotherm G.m.b.H. & Gebr. Heller Maschinenfabrik G.m.b.H. Method of producing a crankshaft. 3,313,016, 4–11–67, Cl. 29—149.5.

Seulen, Gerhard, and H. Kuhlhars, to Deutsche Edelstahlwerke Aktiengesellschaft Krefeld, and Allgemeine Elektricitats-Gesellschaft. Method of and apparatus for electroinductively heating the chain links of the track chains of caterpillar or track-laying vehicles. 3,336,459, 8–15–67, Cl. 219—10.43.

Seulen, Gerhard W., and J. T. Vaughan, to V & V Companies, Inc. Induction melting furnace. 3,320,348, 5–16–67, Cl. 13—27

Seulen, Gerhard W., and J. T. Vaughan, to Alco Standard Corp., formerly known as Alco Chemical Corp. Induction melting furnace improvements. 3,335,212, 8–8–67, Cl. 13—27.

Seuntjens, Roland P. Farm gate. 3,303,613, 2–14–67, Cl. 49—131.

Seuthe, Eberhard. Process for producing steam and smoke clouds in a toy. 3,342,746, 9–19–67, Cl. 252—305.

Sev, Alexandre, to CSF-Compagnie Generale de Telegraphie. Stabilized mixer oscillator for wide band television receiver. 3,356,952, 12–5–67, Cl. 325—459.

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Sevens, Gerard M., and A. P. Wagemans, to Gevaert Photo-Producten N.V. Process for the manufacture of printing plates. 3.300,306, 1–24–67, Cl. 96—29.

Sevenska Cellulosa Aktiebolaget: *See*—
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Sever, Janez F., to Square D Co. Combination terminal block and electrical component assembly. 3,323,021, 5–30–67, Cl. 317—101.

Severance, Glen R., and K. D. Salisbury, to Whirlpool Corp. Dispenser with cleaning means. 3,303,675, 2–14–67, Cl. 68—17.

Severns, William H., Jr., and G. D. Smith, to E. I. du Pont de Nemours and Co. Method of coating metals. 3,331,700, 7–18–67, Cl. 117—22.

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Sevison, Luther E. and K. L. 3,311,031.

Sevison, Luther E. and K. L., to S. H. Davis Paper Box Co. Apparatus for assembling spools. 3,311,031, 3–28–67, Cl. 93—1.

Sevy, Robert H., to United States of America, Atomic Energy Commission. Modular flux trap reactor. 3,341,420, 9–12–67, Cl. 176—18.

Seward, Edgar C. Hoisting device. 3,304,061, 2–14–67, Cl. 254—189.

Sewelin, Ernest R., to International Harvester Co. Motor vehicle body mounting means. 3,321,236, 5–23–67, Cl. 296—35.

Sewell, Cyrus G. Grade averaging device. 3,295,758, 1–3–67, Cl. 235—61.

Sewell, Cyrus G. Check writer. 3,296,959, 1–10–67, Cl. 101—80.

Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Connectors. 3,319,214, 5–9–67, Cl. 339—91.

Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Coaxial transmission lines. 3,344,370, 9–26–67, Cl. 333—96.

Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Electrical transmission line. 3,344,371, 9–26–67, Cl. 333—96.

Sewell, Donald N., to Dielectric Products Engineering Co., Inc. Method of manufacturing a coaxial electrical transmission line. 3,349,479, 10–31–67, Cl. 29—600.

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Sewell, Robert G. S.: *See*—
Rogers, James W. and B. P., Backman, and Sewell. 3,343,400.

Sewell, Wesley C., to Honeywell Inc. Alteration of a signal's cross over point to effect phase shift. 3,329,888, 7–4–67, Cl. 323—101.

Sewing, Gerhard: *See*—
Wulbrede, Ernst, and Sewing. 3,313,258.

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Sexstone, John H., and M. B. Hagan, to Brown & Williamson Tobacco Corp. Multiple filter assembly apparatus. 3,357,320, 12–12–67, Cl. 93—1.

Sexton, Arthur R., to The Dow Chemical Co. Production of monohalopyridinols. 3,355,456, 11–28–67, Cl. 260—297.

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Sexton, Edward W. 3,355,053.

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Sexton, Louis P. Fitted multiple interdental stimulator and method of making same. 3,335,718, 8–15–67, Cl. 128—62.

Sexton, Peter A., to Matthey, Johnson & Co. Ltd. Hydrogen diffusion tubes. 3,312,043, 4–4–67, Cl. 55—158.

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Seyffert, Walter H., III, to Baker Oil Tools, Inc. Subsurface shifting apparatus. 3,335,802, 8–15–67, Cl. 166—226.

Seyfried, Richard F., to The Ohio Crankshaft Co. Automatic temperature control. 3,346,712, 10–10–67, Cl. 219—8.5.

Seyl, Peter, to R. Winkler and K. Dunnebier. Device for distributing work pieces. 3,355,169, 11–28–67, Cl. 271—71.

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Short, Glen A., to Shell Oil Co. Production of modified polyolefin. 3,318,979, 5–9–67, Cl. 260—878.

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Short, Joe T., to Callaway Mills Co. Tufting method and apparatus. 3,336,889, 8–22–67, Cl. 112—266.

Short, Joe T., to Callaway Mills Co. Tufted fabric having pile composed of roving or roping. 3,342,153, 9–19–67, Cl. 112—410.

Short, Joe T., to Callaway Mills Co. Tufting needle and method of making same. 3,356,047, 12–5–67, Cl. 112—79.

Short, Joe T., to Callaway Mills Co. Fluid flow method and apparatus for applying twist to strand material. 3,356,049, 12–5–67, Cl. 112—79.

Short, Joe T., J. C. Gaulding, and H. Pike, to Callaway Mills Co. Pile fabric. 3,338,198, 8–29–67, Cl. 112—410.

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Short, Oliver A., and J. R. White, to E. I. du Pont de Nemours and Co. Magnetic ink. 3,347,815, 10–17–67, Cl. 260—33.4.

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Shoup, Robert W., to Autographic Business Forms, Inc. Multiple item printing apparatus. 3,340,801, 9–12–67, Cl. 101—90.

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Shrader, Terry M., to Radio Corporation of America. Shadow mask mounting structure. 3,334,259, 8–1–67, Cl. 313—85.

Shrader, Terry M., and G. R. Fadner, Jr., to Radio Corp. of America. Cathode ray tube with electrode supported by strap-like springs. 3,296,477, 1–3–67, Cl. 313—85.

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Shreck, Peter K., and T. B. Howe. Educational device. 3,314,165, 4–18–67, Cl. 35—8.

Shreck, Peter K., and P. Barnett; said Barnett, assor. to said Shreck. Educational device. 3,319,357, 5–16–67, Cl. 35—35.

Shreve, James S. Sampling type oscilloscope system. 3,329,857, 7–4–67, Cl. 315—18.

Shreve, Robert R., to Philamon Laboratories, Inc. Electrostatic tuning fork resonator. 3,350,667, 10–31–67, Cl. 333—71.

Shreve, Warren T., to Leeds & Northrup Co. Automatic optical pyrometer system with automatic gain control. 3,354,773, 11–28–67, Cl. 88—22.5.

Shrewsbury, Raymond W., to Minnesota Mining and Mfg. Co. Copy sheet having a layer of thermally rupturable hollow microcapsules on a conductive backing and the method of use. 3,318,697, 5–9–67, Cl. 96—1.

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Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of ethers of hydroxymethyl polymethyl siloxanes. 3,297,735, 1–10–67, Cl. 260—448.2.

Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of methyl-(hydroxymethyl)-siloxanes. 3,324,161, 6–6–67, Cl. 260—448.2.

Simmler, Walter, and H. Niederprüm, to Farbenfabriken Bayer Aktiengesellschaft. Organomercaptomethyl silicon compounds and production. 3,345,393, 10–3–67, Cl. 260—448.2.

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Simmon Bros., Inc.: *See*—
Weisglass, Louis L. 3,316,804.
Weisglass, Louis L. 3,351,766.

Simmonds, Melvin: *See*—
Scott, William W., and Simmonds. 3,345,023.

Simmonds Precision Products, Inc.: *See*—
Bell, Charles C. 3,349,301.
Cohn, Irving H. 3,335,359.
Crandall, Milton A. 3,319,187.
Edwards, Harrison F., and Gronner. 3,358,509.
Gronner, Alfred D. 3,295,372.
Gronner, Alfred D., and Thaler. 3,338,098.
Morris, John N. 3,336,912.
Sargent, Raymond W. 3,299,492.
Sargent, Raymond W. 3,334,203.
Smith, Stanley J. 3,350,943.
Thaler, Sheldon S. 3,357,234.

Simmonds, Robert C., Jr., to United Shoe Machinery Corp. Shoe carriage spindles. 3,308,495, 3–14–67, Cl. 12—127.

Simmonds S.A.: *See*—
Noirot, Louis P. 3,325,196.

Simmonnet, Andre A. P., and J. A. P. Kienzle, to Etablissements Kuhlmann. Benzothiazolsulphonyl substituted reactive acid anthraquinone dyestuffs. 3,299,084, 1–17–67, Cl. 260—303.

Simmons, Arthur L., and J. J. Buckley, to United States of America, Air Force. Impedance tuning of a piezoelectric device. 3,309,929, 3–21–67, Cl. 73—505.

Simmons, Arthur L., D. W. Roese, and J. J. Buckley, to Westinghouse Electric Corp. Satellite control apparatus. 3,312,422, 4–4–67, Cl. 244—1.

Simmons, Arthur W.: *See*—
Kershaw, John W. G., Simmons, and Page. 3,300,254.

Simmons, Bjorn H. O., to Aktiebolaget Bofors. Illuminating mortar shell. 3,351,013, 11–7–67, Cl. 102—35.6.

Simmons, Bower E.: *See*—
Harris, Paul E., and Simmons. 3,309,618.

Simmons, Bowie G.: *See*—
Thompson, William E., and Simmons. 3,344,613.

Simmons Brian D.: *See*—
Harris, Lionel R. F., Bray, Knight, Peddle, Ward, Speed, Allum, Mann, Simmons, Douglas, and Martin. 3,317,-675.

Simmons, Brian D., and W. T. Duerdoth, to Associated Electrical Industries, Ltd. Synchronisation of pulse code modulation transmission systems. 3,306,978, 2–28–67, Cl. 179—15.

Simmons, Cecil E., to Jeffrey Galion Mfg. Co. Continuous muller with adjustable mulling wheels and plow means. 3,321,187, 5–23–67, Cl. 259—112.

Simmons, Charles A., to Burroughs Corp. Duplication of electrostatic printing. 3,345,944, 10–10–67, Cl. 101—426.

Simmons, Christopher. Powder application. 3,348,527, 10–24–67, Cl. 118—429.

Simmons, Clair C., to Auto Crane Co. Outrigger support. 3,330,421, 7–11–67, Cl. 212—145.

Simmons Co.: *See*—
Blise, Bernard G., and Friedeck. 3,299,446.

Simmons, Edward C., to General Motors Corp. Multiple compartment refrigerator. 3,355,907, 12–5–67, Cl. 62—229.

Simmons, Harold T., and S. F. Murray, to P. R. Mallory & Co., Inc. Wrap-around plug-in timer. 3,306,996, 2–28–67, Cl. 200—38.

Simmons, Harold T., and S. F. Murray, to P. R. Mallory & Co., Inc. Selective indexing mechanism for a timer. 3,313,175, 4–11–67, Cl. 74—813.

Simmons, Henry C. Hand crank-operated portable exerciser. 3,309,084, 3–14–67, Cl. 272—79.

Simmons, Horace G.: *See*—
Thompson, William E., and Simmons. 3,344,613.

Simmons, John G.: *See*—
Frank, Robert I., and Simmons. 3,320,499.

Simmons, John G., D. E. Moister, Jr., and D. A. Starr, Jr., to Burroughs Corp. Vapor deposition apparatus. 3,336,898, 8–22–67, Cl. 118—49.

Simmons, Patrick M. L., ½ to G. I. Magnuson, and ½ to G. I. and R. Magnuson, and L. J. Fox, as Trustees of the Estate of R. M. Magnuson. Apparatus for separating produce. 3,327,850, 6–27–67, Cl. 209—111.7.

Simmons, Paul: *See*—
Duck, Edward W., and Simmons. 3,338,853.

Simmons, Ray L., to Rama Corp. Cartridge heater. 3,310,-769, 3–21–67, Cl. 338—241.

Simmons, Raymond L., to Rama Corp. Cartridge heater. 3,307,135, 2–28–67, Cl. 338—239.

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Abrahamsen, Albert A., and Simmons. 3,305,962.

Simmons, Robert C.: *See*—
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Simmons, Robert H.: *See*—
Baak, Nils T. E. A., and Simmons. 3,322,948.

Simmons, Roger C.: *See*—
Schaedler, Raymond J., and Simmons. 3,298,481.

Simmons, Roy P. Gutter screen attachment. 3,297,285, 1–10–67, Cl 248—48.1.

Simmons, Walter R., to Textron Industries, Inc. Hydraulically operated controlled stroke gun head. 3,309,911, 3–21–67, Cl. 72—391.

Simmons, William H. Container seal with integral means for unsealing. 3,321,102, 5–23–67, Cl. 220—47.

Simms, Charles, Jr.: *See*—
Stuber, Elwyn E., and Simms. 3,358,666.

Simms Group Research & Development Ltd.: *See*—
Freeland, William. 3,317,139.

Simms, Harold A.: *See*—
Hoblit, Louis D., and Simms. 3,310,225.

Simms, John T. W., and J. J. Taylor, to United Shoe Machinery Corp. Cutting dies. 3,335,628, 8–15–67, Cl. 83—652.

Simms, Paul R., to Teletype Corp. Printing telegraph motor start-stop mechanism. 3,317,660, 5–2–67, Cl. 178—4.1.

Simms, Philip W. Protective carrying device. 3,335,828, 8–15–67, Cl. 190—57.

Simms, Robert A., to Westinghouse Electric Corp. Photoconductive target electrode for a pickup tube and its method of fabrication. 3,303,344, 2–7–67, Cl. 250—211.

Simnad, Massoud T.: *See*—
Dee, John B., and Simnad. 3,352,757.

Simolka, Joseph J. Sidewalk edger. 3,357,497, 12–12–67, Cl. 172—16.

Simon, Albert B., and T. E. Fohs, to United States of America, Air Force. Flexure stiffness testing machine for ultrathin sheets. 3,324,714, 6–13–67, Cl. 73—100.

Simon, Andrew P.: *See*—
Hutchins, Marlyn R. 3,297,123.

Simon-Carves Ltd.: *See*—
Alderman, Lewis. 3,309,286.
Alsop, Charles R., and Semple. Re. 26,194.
Clough, George F. G. 3,323,782.
Clough, George F. G., and Wiltshier. 3,329,407
Howe, Charles, and Abson. 3,299,256.
Simon, Clarence K., to Dominion Products, Inc. Stabilized flavoring concentrates. 3,353,961, 11–21–67, Cl. 99—78.
Simon, Edouard, deceased, by P. Jonquet, legal representative, to Etablissements Simon S.A. Apparatus for knitting pockets on a full-fashioned knitting machine. 3,318,111, 5–9–67, Cl. 66—89.
Simon, Ell: *See*—
Ransom, Donald J., Simon, and Levine. 3,297,416.
Simon, Ell, and M. Levine, to Lockheed Aircraft Corp. Electrically conductive joints and gaskets. 3,347,978, 10–17–67, Cl. 174—84.
Simon, Frank C. Dispenser for pressure sensitive tape and the like. 3,329,326, 7–4–67, Cl. 226—127.
Simon, Gladys B., and M. Reese. Orthopedic cast. 3,307,537, 3–7–67, Cl. 128—90.
Simon, Gunter: *See*—
Potocnik, Kurt, and Simon. 3,315,950.
Simon Handling Engineers Ltd.: *See*—
Abson, James W., and Broadhurst. 3,314,765.
Simon, Hans. Cable clamp. 3,352,961, 11–14–67, Cl. 174—65.
Simon, Hans. Electric snap action switch. 3,356,802, 12–5–67, Cl. 200—67.
Simon, Harry R., to Richard Engineering Co. Automotive accessories. 3,328,064, 6–27–67, Cl. 292—288.
Simon, Henry Ltd.: *See*—
Brown, Thomas J. A., and Gordon. 3,328,587.
Higgs, Ernest W. 3,317,085.
Simon, Henry, (Australia) Ltd.: *See*—
Pickering, Barry E. 3,346,988.
Simon, Horst, to Eastman Kodak Co. Means for retaining a film to a camera take-up spool. 3,353,766, 11–21–67, Cl. 242—74.2.
Simon, Irvin C.: *See*—
Merkley, Leo C., W. R. Hakes, and Simon. 3,324,989.
Simon, John. Jointed winding stem with screwed-on button. 3,358,438, 12–19–67, Cl. 58—90.
Simon, John C., Jr.: *See*—
Fox, Harvey M. 3,325,711.
Simon, John G., to Minnesota Mining and Mfg. Co. Mechanical plating. 3,328,197, 6–27–67, Cl. 117—109.
Simon, Klaus: *See*—
Mann, Hans-Joachim, Pohl, and Simon. 3,316,309.
Simon, Manfred: *See*—
Richtzenhain, Hermann, and Simon. 3,360,391.
Simon, Max, to Serta Associates, Inc. Spring unit construction. 3,327,331, 6–27–67, Cl. 5—351.
Simon, Myron S.: *See*—
Elbut, Elkan E., and Simon. 3,337,389.
Downey, John F., and Simon. 3,347,672.
Green, Milton, and Simon. 3,299,041.
Simon, Myron S., and S. H. Mervis, to Polaroid Corp. Azo and anthraquinone dyes containing alkoxalyl and aryloxalyl mono- and diesters of o- and p-dihydroxyphenyl groups. 3,312,682, 4–4–67, Cl. 260—202.
Simon, Oskar: *See*—
Pezer, Eberhard, and Simon. 3,321,128.
Simon, Paul W.: *See*—
Lund, Richard B., Simon, and Vitrone. 3,354,148.
Simon, Raphael A.: *See*—
Aller, Mervle D. W., and Simon. 3,322,323.
Simon, Robert H. M., and S. Oster, to Monsanto Co. Process for recovering graft copolymer latex solids. 3,345,430, 10–3–67, Cl. 260—876.
Simon, Roger: *See*—
Leroy, Pierre, and Simon. 3,322,867.
Simon, Roger J. A., to Societe Anonyme Etablissements Simon. Machine for the continuous production of salt butter. 3,333,270, 11–21–67, Cl. 31—33.
Simon, Sam A. Building construction and modular panels therefor. 3,320,917, 5–23–67, Cl. 52—90.
Simon, Samuel, to Prosit Service, Corp. Cord holder. 3,312,434, 4–4–67, Cl. 248—62.
Simon, Warner H. Hermetically sealed container for welding rod. 3,350,535, 10–31–67, Cl. 219—74.
Simon, Wilhelm, to Rohm & Haas Gmb.H. Extrusion die. 3,354,509, 11–28–67, Cl. 18—12.
Simon, William, to Image Instruments, Inc. Flying spot system for comparing an object with tolerance masks. 3,309,958, 3–21–67, Cl. 88—14.
Simon, William, to Massachusetts Institute of Technology. Pulse steering circuit applied to differential amplifier. 3,343,088, 9–19–67, Cl. 330—30.
Simon, William F., to Sperry Rand Corp. Error detection and correction circuits. 3,331,052, 7–11–67, Cl. 340—146.1.
Simoncini, Francesco, to Officine Simoncini S.p.A. Method of type character reproduction. 3,303,925, 2–32–67, Cl. 88—24.
Simonds, Milton R.: *See*—
Salzberg, Harold K., and Simonds. 3,323,929.
Simone, Carl F., to Bell Telephone Laboratories, Inc. Digitally synthesized artificial transfer networks. 3,324,313, 6–13–67, Cl. 328—165.
Simone, Dominic: *See*—
Herman, Daniel F., Resnick, and Simone. 3,305,498.
Simone, Raymond A., and M. E. Brokke, to Stauffer Chemical Co. Process for the production of substituted pyrimidines. 3,328,405, 6–27–67, Cl. 260—251.
Simonet, Jocelyn E. L., and J. Biver, to Societe Du Carburateur Zenith. Variable air-intake carburettor. 3,351,327, 11–7–67, Cl. 261—48.
Simonetti, Sergio, to Sonic Engineering Corp. Mixing apparatus. 3,318,580, 5–9–67, Cl. 259—8.
Simonetti, Sergio, to Sonic Engineering Corp. Mixing system. 3,353,797, 11–21–67, Cl. 259—8.
Simonin, Rene, Jr., to Barksdale Valves. Adjustable (differential) actuation value pressure switch. 3,301,977, 1–31–67, Cl. 200—82.
Simonis, Edward A.: *See*—
Sibley, John D., Simonis, and Lusby. 3,360,050.
Simonis, Herbert: *See*—
Ismail, Roshdy, Corseplus, and Simonis. 3,347,848.
Simonis, Jurgen: *See*—
Eder, Wolfgang, and Simonis. 3,360,110.
Simonnet, Andre A. P., and L. A. Cabut, to Etablissements Kuhlmann. 1 - hydroxy-4-benzothiazolylamino anthraquinone. 3,313,823, 4–11–67, Cl. 260—303.
Simonoff, Natalie, to Esther Lustig. Reversible wrap around garment. 3,348,237, 10–24–67, Cl. 2—74.
Simonovic, Dragoljub, to GTV Gesellschaft fur Transport und Verkehrswesen m.b.H., Firma. Universal multi-purpose display device. 3,358,395, 12–19–67, Cl. 40—63.
Simons, Allison K., A. O. Radke, and H. N. Tengler, to Bostrom Corp. Vehicle seat rebound control. Re. 26,162, 2–21–67, Cl. 248—400.
Simons, Charles W., and R. S. Holdsworth, to W. R. Grace & Co. Gasket composed of a panel liner and an annular sealing ring for closures. 3,295,486, 1–3–67, Cl. 113—121.
Simons, Charles W., J. A. Gribens, and I. J. Arons, to W. R. Grace & Co. Aerosol container closures with plastisol sealing gaskets. 3,342,381, 9–19–67, Cl. 222—402.1.
Simons, Charles W., and I. J. Arons, to W. R. Grace & Co. Preparation of blister-free elastomeric films and coatings. 3,348,966, 10–24–67, Cl. 117—95.
Simons, Clifford G., to Sta-Rite Industries, Inc. In-line filter element assembling means. 3,358,839, 12–19–67, Cl. 210—232.
Simons, Clifford G., to Sta-Rite Industries, Inc. Pipe coupling. 3,359,018, 12–19–67, Cl. 285—367.
Simons, Dolph: *See*—
Levy, Warren W., Schweriner, and Simons. 3,359,469.
Simons, Hector E., to American Steel Corp. Strip steel measuring wheel. 3,295,215, 1–3–67, Cl. 33—134.
Simons, Ira W., to Cryo-Vac, Inc. Method and apparatus for evacuating sealed chambers. 3,357,446, 12–12–67, Cl. 137—322.
Simons, Karl. Portable hand loom for weaving. 3,332,448, 7–25–67, Cl. 139—29.
Simons, Sanford L., ½ to C. B. Messenger. Method for preparing a membrane. 3,303,254, 2–7–67, Cl. 264—219.
Simons, William H., Jr., ½ to R. Lunceford. Torsional twist manual exerciser device. 3,330,558, 7–11–67, Cl. 272—68.
Simonson, William R., to S. L. Smith Sons (England) Ltd. Rate gyroscopes. 3,303,707, 2–14–67, Cl. 74—5.5.
Simonson, William R., and D. L. Judd, to S. Smith & Sons (England) Ltd. Rate gyroscopes. 3,301,072, 1–31–67, Cl. 74—5.6.
Simonsen, George N. Method of measuring one's waistline. 3,323,141, 6–6–67, Cl. 2—322.
Simonson, Leroy W.: *See*—
Klinkenberg, Hubert E., and Simonson. 3,321,827.
Klinkenberg, Hubert E., and Simonson. 3,322,249.
Klinkenberg, Hubert E., and Simonson. 3,338,349.
Simonson, Le Roy W., to Warner Electric Brake & Clutch Co. Wear take-up device for magnetic friction couplings. 3,297,122, 1–10–67, Cl. 192—111.
Simonton, James C. Adjustable vision and breeze barrier panel. 3,342,458, 9–19–67, Cl. 256—24.
Simonton, Robert D., to Union Carbide Corp. Grid like article and apparatus for and method of making same. 3,308,597, 3–14–67, Cl. 52—635.
Simonyan, Karabet, and G. E. Chilton, to Computer Diode Corp. Solid state temperature measuring device. 3,330,159, 7–11–67, Cl. 73—362.
Simonyan, Karabet, and H. Kim, to General Instrument Corp. Testing apparatus for a sequence of transistors and the like having a condition responsive marker. 3,344,351, 9–26–67, Cl. 324—158.
Simoons, John E. A., to Koninklijke Pharmaceutische Fabrieken v/h Brocades-Scheeman & Pharmacia. Pharmaceutical preparations. 3,322,633, 5–30–67, Cl. 167—22.
Simor, George G. Dispenser for flexible strips. 3,300,085, 1–24–67, Cl. 221—41.
Simpelaar, Clyde S., to Modine Mfg. Co. Heat exchanger and method of making same. 3,295,192, 1–3–67, Cl. 29—157.3.
Simpelaar, Clyde S., to Modine Mfg. Co. Bonding compositions. 3,301,688, 1–31–67, Cl. 106—1.
Simpkins, Alan B., and R. H. Hamilton, to Hewlett-Packard Co. Vibration detection. 3,308,424, 3–7–67, Cl. 340—16.
Simplex Level Co., Inc.: *See*—
Meridle, Boyd, Jr. 3,302,943.
Simplex Time Recorder Co.: *See*—
Kramer, Roger G., Hildum, and Bowin. 3,341,852.
Simplex Wire and Cable Co.: *See*—
Crowdes, George J., and Hunt. 3,349,332.
Davis, Claude G., Freeman, and Phelps. 3,328,874.

Simplex Wire and Cable Co.: *See*—Continued
Gnerre, C. Gerald, and Dinunzio. 3,351,706.
Gross, Richard E., and Hunt. 3,350,312.
Hunt, George H. 3,346,500.
Hutchins, Loren H., Jr. 3,339,012.
McNerney, Norman E. 3,345,453.
McNerney, Norman E. 3,346,690.
Simplicity Engineering Co.: *See*—
Behnke, George W., Westcott, and Wirth. 3,334,823.
Behnke, George W., and Wirth. 3,300,152.
Kittle, Walter R. 3,295,667.
Simplicity Mfg. Co.: *See*—
Kamlukin, Igor. 3,311,186.
Sim-pli-ci-ty Products Corp.: *See*—
Pope, Courtney C. 3,319,267.
Pope, Courtney C. 3,323,143.
Simplimatic Engineering Co.: *See*—
Englander, Robert A., and Messer. 3,325,131.
Simplomatic Mfg. Co.: *See*—
Cipolla, Peter L. 3,353,289.
Simpson, Albert E.: *See*—
Moulton, James A., and Simpson. 3,350,571.
Simpson, Billy D., to Phillips Petroleum Co. Preparation of alkyl amines. 3,299,142, 1–17–67, Cl. 260—585.
Simpson, Billy D., to Phillips Petroleum Co. Bis-(hydrocarbyloxycarbonylalkylthioalkyl) phenols. 3,321,508, 5–23–67, Cl. 260—470.
Simpson, Billy G., to Dow Corning Corp. Method for imparting a permanent crease to wool. 3,345,195, 10–3–67, Cl. 117—10.
Simpson, Bruce E., to Felker Mfg. Co. Masonry saw. 3,311,103, 3–28–67, Cl. 125—13.
Simpson, Charles F., to Atlantic Richfield Co. Motor fuel blend containing hydrogenated heavy cracked naphtha. 3,330,758, 7–11–67, Cl. 208—17.
Simpson, Clarence E., to Universal Match Corporation. Explosive arming and firing system. 3,351,016, 11–7–67, Cl. 102—70.2.
Simpson, Donald C., and P. Ballots, to Nautilus Industries, Inc. Door hood arrangement. 3,322,111, 5–3–67, Cl. 126—21.
Simpson, Donald C., and P. Ballots, to Nautilus Industries, Inc. Retractable stove hood. 3,356,008, 12–5–67, Cl. 98—115.
Simpson, Donald C., and P. Ballots, to Nautilus Industries, Inc. Oven exhaust unit. 3,356,009, 12–5–67, Cl. 98—115.
Simpson, Donald L., to E. I. du Pont de Nemours and Co. Process for drying polymers. 3,307,271, 3–7–67, Cl. 34—32.
Simpson, Edward F. and F. W. Simpson, Jr. Pavement lifter. 3,349,933, 10–31–67, Cl. 214—145.
Simpson, Edward S. G.: *See*—
Osmond, Desmond W. J., Simpson, and Waghorn. 3,331,801.
Simpson, Elizabeth A.: *See*—
Simpson, John A., and Soderquist. 3,316,661.
Simpson, Elliot W.: *See*—
Knowlson, Paul D., and Simpson, and Hull. 3,299,167.
Simpson, Frank F.: *See*—
Hansom, Bernard S., and Simpson. 3,349,482.
Simpson, Frank S., to Illinois Stoker Co. Refuse disposal. 3,318,270, 5–9–67, Cl. 110—7.
Simpson, Frank W., Jr.: *See*—
Simpson, Edward F. and F. W. Simpson, Jr. 3,349,933.
Simpson, George R., and E. Snitzer, to American Optical Co. Polarizing apparatus using inclined plates of laserable material. 3,311,846, 3–28–67, Cl. 331—94.5.
Simpson, Herbert, Corp.: *See*—
Kauffman, John H. 3,339,899.
Simpson, Howard W. Heavy duty planetary transmission. 3,319,491, 5–16–67, Cl. 74—740.
Simpson, Jack N., and W. R. Bohner, to The Electric Storage Battery Co. Attachment for mounting shield on safety cap. 3,332,086, 7–25–67, Cl. 2—8.
Simpson, James C., and H. G. Wells, to British Aircraft Corp. (Operating) Ltd. Control wire dispenser for a guided missile. 3,319,781, 5–16–67, Cl. 206—59.
Simpson, John A., and C. E. Soderquist, Jr., to E. A. Simpson. Variable constant-speed drive mechanism. 3,316,661, 5–2–67, Cl. 35—35.2.
Simpson, Justin, C. J. Chebuhar, and E. H. Reiher, to Continental Can Co., Inc. Method and machine for making tubular container bodies. 3,338,142, 8–29–67, Cl. 93—82.
Simpson, Justin E., E. Gilkeson, and J. S. Bozek, to Continental Can Co., Inc. Plastic bottle molding machine. 3,310,834, 3–28–67, Cl. 18—5.
Simpson, Lewis E.: *See*—
Karow, William E., and Simpson. 3,312,143.
Simpson, Lewis E., and W. E. Karow. Illumination control. 3,344,704, 10–3–67, Cl. 88—24.
Simpson, Ralph E.: *See*—
Nichols, William A., and Simpson. 3,311,317.
Simpson, Richard H., Jr., to General Motors Corp. Arcuately indexable rotary drive connector. 3,335,580, 8–15–67, Cl. 64—24.
Simpson, Richard W., to V-M Corp. Adapter spindle for record changers. 3,301,563, 1–31–67, Cl. 274—10.
Simpson, Robert C. H. Printer ticket scanning apparatus. 3,318,480, 5–9–67, Cl. 222—30.
Simpson, S., Ltd.: *See*—
Mengers, John P. N. 3,295,144.
Simpson, Sherwood L., and F. W. Leach, to American Home Products Corp. Swinging door hinge unit. 3,328,832, 7–4–67, Cl. 16—131.
Simpson, Theodore B., and F. W. Evans, to Hooker Chemical Corp. Fluorination of 2,2,3,3-tetrachlorohexafluorobutane. 3,328,475, 6–27–67, Cl. 260—653.3.
Simpson Timber Co.: *See*—
Clausen, Victor H., and Zweig. 3,334,891.
Clausen, Victor H., and Zweig. 3,355,168.
Vonhof, Herbert. 3,299,922.
Simpson, Verne G., to General Electric Co. Rapid curing adhesive composition for bonding silicone rubber to metallic surfaces. 3,318,717, 5–9–67, Cl. 106—287.
Simpson, Verne G., to General Electric Co. Elastomeric organopolysiloxane compositions containing unsaturated alkoxy silanes. 3,341,489, 9–12–67, Cl. 260—37.
Simpson, Victor R.: *See*—
Burns, Robert C., Hasegawa, and Simpson. 3,318,429.
Burns, Robert C., Hasegawa, and Simpson. 3,322,253.
Reed, David W., Simpson, and Zolnosky. 3,355,001.
Simpson, Victor R., to International Business Machines Corp. Lubrication of print wires. 3,302,557, 2–7–67, Cl. 101—1.
Simpson, Walter W.: *See*—
Stewart, Frederick G., and Simpson. 3,344,935.
Simpson, Warren C.: *See*—
Sawyer, Webster M., Jr., and Simpson. 3,328,326.
Sommer, Harry J., and Simpson. 3,324,041.
Simpson, Winea J. Visual acuity testing apparatus with test characters representing stylized human hand. 3,355,237, 11–28–67, Cl. 351—37.
Sims, Antonina. Combination credenza and table. 3,340,827, 9–12–67, Cl. 108—77.
Sims, Chester T.: *See*—
Foster, Allan D., and Sims. 3,346,378.
Sims, Claude C. Piezoelectric voice range transducer. 3,320,581, 5–16–67, Cl. 340—10.
Sims, Claude C., to United States of America, Navy. Extended frequency range pressure balanced hydrophone. 3,328,752, 6–27–67, Cl. 340—10.
Sims, Colin B., Sr. Fruit gathering machine. 3,356,196, 12–5–67, Cl. 193—7.
Sims, David E., ½ to J. E. Smith, and ½ to E. E. Williams. Apparatus providing A-M radio reception of F-M. 3,360,730, 12–26–67, Cl. 325—315.
Sims, Donald E., to International Business Machines Corp. Data recording and printing apparatus capable of responding to changed format. 3,297,124, 1–10–67, Cl. 197—19.
Sims, George E., to Elliott Brothers (London) Ltd. Aircraft track holding systems. 3,358,948, 12–19–67, Cl. 244—77.
Sims, Glenn E.: *See*—
Lee, Paul L., and Sims. 3,351,585.
Sims, Homer J., to Rohm & Haas Co. O-alkyl, O-phenyl or O-cresyl aminomethane phosphonic acids. 3,316,331, 4–25–67, Cl. 260—944.
Sims, Homer J., and H. J. White, to Rohm & Haas Co. Fuel compositions. 3,305,329, 2–21–67, Cl. 44—63.
Sims, James G., and G. W. Sovereign, to Monsanto Co. Flocked hollow filaments. 3,329,553, 7–4–67, Cl. 161—64.
Sims, James R.: *See*—
Kaufman, Martin H., Stull, and Sims. 3,331,203.
Sims, James S., Jr.: *See*—
Fortmann, William E., Stearns, and Sims. 3,306,037.
Sims, John C., Jr., to Anelex Corp. Phase modulated binary magnetic recording and reproducing system. 3,299,414, 1–17–67, Cl. 340—174.1.
Sims, John C., Jr., to Anelex Corp. Print drum type matrix and sequential line printing control. 3,322,064, 5–30–67, Cl. 101—93.
Sims, John C., Jr., to Anelex Corp. Reproducing system for phase modulated magnetically recorded data. 3,323,115, 5–30–67, Cl. 340—174.1.
Sims, John C., Jr., to Anelex Corp. Selective hammer interposing means in high speed printers. 3,332,343, 7–25–67, Cl. 101—93.
Sims, John C., Jr., to Anelex Corp. Stored data protection system. 3,340,539, 9–5–67, Cl. 346—74.
Sims, Leland W., and R. W. Fredette, to United States of America, Air Force. High speed deceleration device. 3,350,040, 10–31–67, Cl. 244—145.
Sims, Marion W., to General Electric Co. Method for altering the overall configuration of electrical coils wound from a number of conductor turns. 3,333,335, 8–1–67, Cl. 29—606.
Sims, Norman D.: *See*—
Bynum, George D., and Sims. 3,309,734.
Sims, Robert W., to Monsanto Co. Gas-liquid separator. 3,339,350, 9–5–67, Cl. 55—320.
Sims, Robert Y., and A. I. Bottner, to International Telephone and Telegraph Corp. Telephone equipment housing. 3,309,576, 3–14–67, Cl. 317—99.
Sims, Willard M.: *See*—
Aelion, Rene, Eirich, and Sims. 3,337,648.
Grillo, Gerald J., Aelion, and Sims. 3,325,561.
Honn, Francis J., and Sims. 3,318,854.
Simshauser, Herbert H. Machine for crushing cans, bottles and the like. 3,315,594, 4–25–67, Cl. 100—52.
Simson, Johann P.: *See*—
Jakob, Franz, and Simson. 3,356,856.
Sinaiko, Edwin S. Method of and means for diagnosis of ingested drugs with radio-opaque and other indicators. 3,341,417, 9–12–67, Cl. 167—84.5.
Sinatra, Charles E., and W. Tanski, Jr., to Star Dental Mfg. Co., Inc. Finger control for dental handpiece. 3,346,958, 10–17–67, Cl. 32—28.

Simon-Carves Ltd.: *See*—
Alderman, Lewis. 3,309,286.
Alsop, Charles R., and Semple. Re. 26,194.
Clough, George F. G. 3,323,782.
Clough, George F. G., and Wiltshier. 3,329,407
Howe, Charles, and Abson. 3,299,256.

Simon, Clarence K., to Dominion Products, Inc. Stabilized flavoring concentrates. 3,353,961, 11–21–67, Cl. 99—78.

Simon, Edouard, deceased, by P. Jonquet, legal representative, to Etablissements Simon S.A. Apparatus for knitting pockets on a full-fashioned knitting machine. 3,318,111, 5–9–67, Cl. 66—39.

Simon, Eli: *See*—
Ransom, Donald J., Simon, and Levine. 3,297,416.

Simon, Eli, and M. Levine, to Lockheed Aircraft Corp. Electrically conductive joints and gaskets. 3,347,978, 10–17–67, Cl. 174—84.

Simon, Frank C. Dispenser for pressure-sensitive tape and the like. 3,329,326, 7–4–67, Cl. 226—127.

Simon, Gladys B., and M. Reese. Orthopedic cast. 3,307,537, 3–7–67, Cl. 128—90.

Simon, Gunter: *See*—
Potocnik, Kurt, and Simon. 3,315,950.

Simon Handling Engineers Ltd.: *See*—
Abson, James W., and Broadhurst. 3,314,765.

Simon, Hans. Cable clamp. 3,352,961, 11–14–67, Cl. 174—65.

Simon, Hans. Electric snap-action switch. 3,356,802, 12–5–67, Cl. 200—67.

Simon, Harry R., to Richard Engineering Co. Automotive accessories. 3,328,064, 6–27–67, Cl. 292—288.

Simon, Henry Ltd.: *See*—
Brown, Thomas J. A., and Gordon. 3,328,587.
Higgs, Ernest W. 3,317,085.

Simon, Henry, (Australia) Ltd.: *See*—
Pickering, Barry E. 3,346,988.

Simon, Horst, to Eastman Kodak Co. Means for retaining a film to a camera take-up spool. 3,353,766, 11–21–67, Cl. 242—74.2.

Simon, Irvin C.: *See*—
Merkley, Leo C., W. R., Hakes, and Simon. 3,324,989.

Simon, John. Jointed winding stem with screwed-on button. 3,358,438, 12–19–67, Cl. 58—90.

Simon, John C., Jr.: *See*—
Fox, Harvey M. 3,325,711.

Simon, John G., to Minnesota Mining and Mfg. Co. Mechanical plating. 3,328,197, 6–27–67, Cl. 117—109.

Simon, Klaus: *See*—
Mann, Hans-Joachim, Pohl, and Simon. 3,316,309.

Simon, Manfred: *See*—
Richtzenhain, Hermann, and Simon. 3,360,391.

Simon, Max, to Serta Associates, Inc. Spring unit construction. 3,327,331, 6–27–67, Cl. 5—351.

Simon, Myron S.: *See*—
Blout, Elkan R., and Simon. 3,337,589.
Downey, John F., and Simon. 3,347,672.
Green, Milton, and Simon. 3,299,041.

Simon, Myron S., and S. H. Mervis, to Polaroid Corp. Azo and anthraquinone dyes containing alkoxalyl and aryloxalyl mono- and diesters of o- and p-dihydroxyphenyl groups. 3,312,682, 4–4–67, Cl. 260—202.

Simon, Oskar: *See*—
Fezer, Eberhard, and Simon. 3,321,128.

Simon, Paul W.: *See*—
Lund, Richard B., Simon, and Vitrone. 3,354,148.

Simon, Raphael A.: *See*—
Adler, Mervle D. W., and Simon. 3,322,523.

Simon, Robert H. M., and B. Oster, to Monsanto Co. Process for recovering graft copolymer latex solids. 3,345,430, 10–3–67, Cl. 260—876.

Simon, Roger: *See*—
Leroy, Pierre, and Simon. 3,322,867.

Simon, Roger J. A., to Societe Anonyme: Etablissements Simon. Machine for the continuous production of salt butter. 3,353,270, 11–21–67, Cl. 31—33.

Simon, Sam A. Building construction and modular panels therefor. 3,310,917, 3–28–67, Cl. 52—90.

Simon, Samuel, to Prosit Service, Corp. Cord holder. 3,312,434, 4–4–67, Cl. 248—62.

Simon, Warner H. Hermetically sealed container for welding rod. 3,350,535, 10–31–67, Cl. 219—74.

Simon, Wilhelm, to Rohm & Haas G.m.b.H. Extrusion die. 3,354,505, 11–28–67, Cl. 18—12.

Simon, William, to Image Instruments, Inc. Flying spot system for comparing an object with tolerance masks. 3,309,958, 3–21–67, Cl. 88—14.

Simon, William, to Massachusetts Institute of Technology. Pulse steering circuit applied to differential amplifier. 3,343,098, 9–19–67, Cl. 330—30.

Simon, William F., to Sperry Rand Corp. Error detection and correction circuits. 3,331,051, 7–11–67, Cl. 340—146.1.

Simoncini, Francesco, to Officine Simoncini S.p.A. Method of type character reproduction. 3,301,125, 1–31–67, Cl. 88—24.

Simonds, Milton R.: *See*—
Salzberg, Harold K., and Simonds. 3,323,929.

Simone, Carl F., to Bell Telephone Laboratories, Inc. Digitally synthesized artificial transfer networks. 3,314,015, 4–11–67, Cl. 328—165.

Simone, Dominic: *See*—
Herman, Daniel F., Resnick, and Simone. 3,305,498.

Simone, Raymond A., and M. E. Brokke, to Stauffer Chemical Co. Process for the production of substituted pyrimidines. 3,328,405, 6–27–67, Cl. 260—251.

Simonet, Jocelyn E. L., and J. Biver, to Societe Du Carburateur Zenith. Variable air-intake carburettor. 3,351,327, 11–7–67, Cl. 261—48.

Simonetti, Sergio, to Sonic Engineering Corp. Mixing apparatus. 3,318,580, 5–9–67, Cl. 259—8.

Simonetti, Sergio, to Sonic Engineering Corp. Mixing system. 3,353,797, 11–21–67, Cl. 259—8.

Simonin, Rene, Jr., to Barksdale Valves. Adjustable (differential) actuation value pressure switch. 3,301,977, 1–31–67, Cl. 200—82.

Simonis, Edward A.: *See*—
Sibley, John D., Simonis, and Lusby. 3,360,050.

Simonis, Herbert: *See*—
Ismail, Roshdy, Corseplus, and Simonis. 3,347,848.

Simonis, Jurgen: *See*—
Eder, Wolfgang, and Simonis. 3,360,110.

Simonnet, Andre A. P., and L. A. Cabut, to Etablissements Kuhlmann. 1 - hydroxy-4-benzothiazolylamino anthraquinone. 3,313,823, 4–11–67, Cl. 260—303.

Simonoff, Natalie, to Esther Lustig. Reversible wrap around garment. 3,348,237, 10–24–67, Cl. 2—74.

Simonovic, Dragoljub, to GTV Gesellschaft fur Transport und Verkehrswesen m.b.H., Firma. Universal multi-purpose display device. 3,358,395, 12–19–67, Cl. 40—63.

Simons, Allison K., A. O. Radke, and H. N. Tengler, to Bostrom Corp. Vehicle seat rebound control. Re. 26,162, 2–21–67, Cl. 248—400.

Simons, Charles W., and R. S. Holdsworth, to W. R. Grace & Co. Gasket composed of a panel liner and an annular sealing ring for closures. 3,295,486, 1–3–67, Cl. 113—121.

Simons, Charles W., J. A. Gribens, and I. J. Arons, to W. R. Grace & Co. Aerosol container closures with plastisol sealing gaskets. 3,342,381, 9–19–67, Cl. 222—402.1.

Simons, Charles W., and I. J. Arons, to W. R. Grace & Co. Preparation of blister-free elastomeric films and coatings. 3,348,966, 10–24–67, Cl. 117—95.

Simons, Clifford G., to Sta-Rite Industries, Inc. In-line filter element assembling means. 3,358,839, 12–19–67, Cl. 210—232.

Simons, Clifford G., to Sta-Rite Industries, Inc. Pipe coupling. 3,359,018, 12–19–67, Cl. 285—367.

Simons, Dolph: *See*—
Levy, Warren W., Schweriner, and Simons. 3,359,469.

Simons, Hector E., to American Steel Corp. Strip steel measuring wheel. 3,295,215, 1–3–67, Cl. 33—134.

Simons, Ira W., to Cryo-Vac, Inc. Method and apparatus for evacuating sealed chambers. 3,357,446, 12–12–67, Cl. 137—322.

Simons, Karl. Portable hand loom for weaving. 3,332,448, 7–25–67, Cl. 139—29.

Simons, Sanford L., ½ to C. B. Messenger. Method for preparing a membrane. 3,303,254, 2–7–67, Cl. 264—219.

Simons, William H., Jr., ½ to R. Lunceford. Torsional twist manual exerciser device. 3,330,558, 7–11–67, Cl. 272—68.

Simons, William R., to S. L. Smith Sons (England) Ltd. Rate gyroscopes. 3,303,707, 2–14–67, Cl. 74—5.5.

Simons, William R., and D. L. Judd, to S. Smith & Sons (England) Ltd. Rate gyroscopes. 3,301,072, 1–31–67, Cl. 74—5.6.

Simonsen, George N. Method of measuring one's waistline. 3,323,141, 6–6–67, Cl. 2—322.

Simonson, Leroy W.: *See*—
Klinkenberg, Hubert E., and Simonson. 3,321,827.
Klinkenberg, Hubert E., and Simonson. 3,322,249.
Klinkenberg, Hubert E., and Simonson. 3,338,349.

Simonson, Le Roy W., to Warner Electric Brake & Clutch Co. Wear take-up device for magnetic friction couplings. 3,297,122, 1–10–67, Cl. 192—111.

Simonton, James C. Adjustable vision and breeze barrier panel. 3,342,458, 9–19–67, Cl. 256—24.

Simonton, Robert D., to Union Carbide Corp. Grid like article and apparatus for and method of making same. 3,308,597, 3–14–67, Cl. 52—635.

Simonyan, Karabet, and G. E. Chilton, to Computer Diode Corp. Solid state temperature measuring device. 3,330,158, 7–11–67, Cl. 73—362.

Simonyan, Karabet, and H. Kim, to General Instrument Corp. Testing apparatus for a sequence of transistors and the like having a condition responsive marker. 3,344,351, 9–26–67, Cl. 324—158.

Simoons, John R. A., to Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. Pharmaceutical preparations. 3,322,633, 5–30–67, Cl. 167—82.

Simor, George G. Dispenser for flexible strips. 3,300,085, 1–24–67, Cl. 221—41.

Simpelaar, Clyde S., to Modine Mfg. Co. Heat exchanger and method of making same. 3,295,192, 1–3–67, Cl. 29—157.3.

Simpelaar, Clyde S., to Modine Mfg. Co. Bonding compositions. 3,301,688, 1–31–67, Cl. 106—1.

Simpkins, Alan B., and R. H. Hamilton, to Hewlett-Packard Co. Vibration detection. 3,308,424, 3–7–67, Cl. 340—16.

Simplex Level Co., Inc.: *See*—
Mericle, Boyd, Jr. 3,302,943.

Simplex Time Recorder Co.: *See*—
Kramer, Roger G., Hildum, and Bowin. 3,341,852.

Simplex Wire and Cable Co.: *See*—
Crowdes, George J., and Hunt. 3,349,832.
Davis, Claude G., Freeman, and Phelps. 3,328,874.

Simplex Wire and Cable Co.: *See*—Continued
Gnerre, C. Gerald, and Dinunzio. 3,351,706.
Gross, Richard E., and Hunt. 3,350,312.
Hunt, George H. 3,346,500.
Hutchins, Loren H., Jr. 3,339,012.
McNerney, Norman E. 3,345,453.
McNerney, Norman E. 3,346,690.

Simplicity Engineering Co.: *See*—
Behnke, George W., Westcott, and Wirth. 3,334,823.
Behnke, George W., and Wirth. 3,300,152.
Kittle, Walter R. 3,295,667.

Simplicity Mfg. Co.: *See*—
Kamlukin, Igor. 3,311,186.

Sim-pli-ci-ty Products Corp.: *See*—
Pope, Courtney C. 3,319,267.
Pope, Courtney C. 3,323,143.

Simplimatic Engineering Co.: *See*—
Englander, Robert A., and Messer. 3,325,131.

Simplomatic Mfg. Co.: *See*—
Cipolla, Peter L. 3,353,289.

Simpson, Albert E.: *See*—
Moulton, James A., and Simpson. 3,350,571.

Simpson, Billy D., to Phillips Petroleum Co. Preparation of alkyl amines. 3,299,142, 1–17–67, Cl. 260—585.

Simpson, Billy D., to Phillips Petroleum Co. Bis-(hydrocarbyloxycarbonylalkylthioalkyl) phenols. 3,321,508, 5–23–67, Cl. 260—470.

Simpson, Billy G., to Dow Corning Corp. Method for imparting a permanent crease to wool. 3,345,195, 10–3–67, Cl. 117—10.

Simpson, Bruce E., to Felker Mfg. Co. Masonry saw. 3,311,103, 3–28–67, Cl. 125—13.

Simpson, Charles F., to Atlantic Richfield Co. Motor fuel blend containing hydrogenated heavy cracked naphtha. 3,330,758, 7–11–67, Cl. 208—17.

Simpson, Clarence E., to Universal Match Corporation. Explostive arming and firing system. 3,351,016, 11–7–67, Cl. 102—70.2.

Simpson, Donald C., and P. Ballots, to Nautilus Industries, Inc. Door hood arrangement. 3,322,111, 5–3–67, Cl. 126—21.

Simpson, Donald C., and P. Ballots, to Nautilus Industries, Inc. Retractable stove hood. 3,356,008, 12–5–67, Cl. 98—115.

Simpson, Donald C., and P. Ballots, to Nautilus Industries, Inc. Oven exhaust unit. 3,356,009, 12–5–67, Cl. 98—115.

Simpson, Donald L., to E. I. du Pont de Nemours and Co. Process for drying polymers. 3,307,271, 3–7–67, Cl. 34—32.

Simpson, Edward F. and F. W. Simpson, Jr. Pavement lifter. 3,349,933, 10–31–67, Cl. 214—145.

Simpson, Edward S. G.: *See*—
Osmond, Desmond W. J., Simpson, and Waghorn. 3,331,801.

Simpson, Elizabeth A.: *See*—
Simpson, John A., and Soderquist. 3,316,661.

Simpson, Elliot W.: *See*—
Knowlson, Paul D., and Simpson, and Hull. 3,299,167.

Simpson, Frank F.: *See*—
Hansom, Bernard S., and Simpson. 3,349,482.

Simpson, Frank S., to Illinois Stoker Co. Refuse disposal. 3,318,270, 5–9–67, Cl. 110—7.

Simpson, Frank W., Jr.: *See*—
Simpson, Edward F. and F. W. Simpson, Jr. 3,349,933.

Simpson, George R., and E. Snitzer, to American Optical Co. Polarizing apparatus using inclined plates of laserable material. 3,311,846, 3–28–67, Cl. 331—94.5.

Simpson, Herbert, Corp.: *See*—
Kauffman, John H. 3,339,899.

Simpson, Howard W. Heavy duty planetary transmission. 3,319,491, 5–16–67, Cl. 74—740.

Simpson, Jack N., and W. R. Bohner, to The Electric Storage Battery Co. Attachment for mounting shield on safety cap. 3,332,086, 7–25–67, Cl. 2—8.

Simpson, James C., and H. G. Wells, to British Aircraft Corp. (Operating) Ltd. Control wire dispenser for a guided missile. 3,319,781, 5–16–67, Cl. 206—59.

Simpson, John A., and C. E. Soderquist, Jr., to E. A. Simpson. Variable constant-speed drive mechanism. 3,316,661, 5–2–67, Cl. 35—35.2.

Simpson, Justin, C. J. Chebuhar, and E. H. Reiher, to Continental Can Co., Inc. Method and machine for making tubular container bodies. 3,338,142, 8–29–67, Cl. 93—82.

Simpson, Justin E., E. Gilkeson, and J. S. Bozek, to Continental Can Co., Inc. Plastic bottle molding machine. 3,310,834, 3–28–67, Cl. 18—5.

Simpson, Lewis E.: *See*—
Karow, William E., and Simpson. 3,312,143.

Simpson, Lewis E., and W. E. Karow. Illumination control. 3,344,704, 10–3–67, Cl. 88—24.

Simpson, Ralph E.: *See*—
Nichols, William A., and Simpson. 3,311,317.

Simpson, Richard H., Jr., to General Motors Corp. Arcuately indexable rotary drive connector. 3,335,580, 8–15–67, Cl. 64—24.

Simpson, Richard W., to V-M Corp. Adapter spindle for record changers. 3,301,563, 1–31–67, Cl. 274—10.

Simpson, Robert C. H. Printer ticket scanning apparatus. 3,318,480, 5–9–67, Cl. 222—30.

Simpson, S., Ltd.: *See*—
Mengers, John P. N. 3,295,144.

Simpson, Sherwood L., and F. W. Leach, to American Home Products Corp. Swinging door hinge unit. 3,328,832, 7–4–67, Cl. 16—131.

Simpson, Theodore B., and F. W. Evans, to Hooker Chemical Corp. Fluorination of 2,2,3,3-tetrachlorohexafluorobutane. 3,328,475, 6–27–67, Cl. 260—653.3.

Simpson Timber Co.: *See*—
Clausen, Victor H., and Zweig. 3,334,891.
Clausen, Victor H., and Zweig. 3,355,168.
Vonhof, Herbert. 3,299,922.

Simpson, Verne G., to General Electric Co. Rapid curing adhesive composition for bonding silicone rubber to metallic surfaces. 3,318,717, 5–9–67, Cl. 106—287.

Simpson, Verne G., to General Electric Co. Elastomeric organopolysiloxane compositions containing unsaturated alkoxy silanes. 3,341,489, 9–12–67, Cl. 260—37.

Simpson, Victor R.: *See*—
Burns, Robert C., Hasegawa, and Simpson. 3,318,429.
Burns, Robert C., Hasegawa, and Simpson. 3,322,253.
Reed, David W., Simpson, and Zolnosky. 3,355,001.

Simpson, Victor R., to International Business Machines Corp. Lubrication of print wires. 3,302,557, 2–7–67, Cl. 101—1.

Simpson, Walter W.: *See*—
Stewart, Frederick G., and Simpson. 3,344,935.

Simpson, Warren C.: *See*—
Sawyer, Webster M., Jr., and Simpson. 3,328,326.
Sommer, Harry J., and Simpson. 3,324,041.

Simpson, Winea J. Visual acuity testing apparatus with test characters representing stylized human hand. 3,355,237, 11–28–67, Cl. 351—37.

Sims, Antonina. Combination credenza and table. 3,340,827, 9–12–67, Cl. 108—77.

Sims, Chester T.: *See*—
Foster, Allan D., and Sims. 3,346,378.

Sims, Claude C. Piezoelectric voice range transducer. 3,320,581, 5–16–67, Cl. 340—10.

Sims, Claude C., to United States of America, Navy. Extended frequency range pressure balanced hydrophone. 3,328,752, 6–27–67, Cl. 340—10.

Sims, Colin B., Sr. Fruit gathering machine. 3,356,196, 12–5–67, Cl. 193—7.

Sims, David E., ½ to J. E. Smith, and ½ to E. E. Williams. Apparatus providing A-M radio reception of F-M. 3,360,730, 12–26–67, Cl. 325—315.

Sims, Donald E., to International Business Machines Corp. Data recording and printing apparatus capable of responding to changed format. 3,297,124, 1–10–67, Cl. 197—19.

Sims, George E., to Elliott Brothers (London) Ltd. Aircraft track holding systems. 3,358,948, 12–19–67, Cl. 244—77.

Sims, Glenn E.: *See*—
Lee, Paul L., and Sims. 3,351,585.

Sims, Homer J., to Rohm & Haas Co. O-alkyl, O-phenyl or O-cresyl aminomethane phosphonic acids. 3,316,331, 4–25–67, Cl. 260—944.

Sims, Homer J., and H. J. White, to Rohm & Haas Co. Fuel compositions. 3,305,329, 2–21–67, Cl. 44—63.

Sims, James G., and G. W. Sovereign, to Monsanto Co. Flocked hollow filaments. 3,329,553, 7–4–67, Cl. 161—64.

Sims, James R.: *See*—
Kaufman, Martin H., Stull, and Sims. 3,331,203.

Sims, James S., Jr.: *See*—
Fortmann, William E., Stearns, and Sims. 3,306,037.

Sims, John C., Jr., to Anelex Corp. Phase modulated binary magnetic recording and reproducing system. 3,299,414, 1–17–67, Cl. 340—174.1.

Sims, John C., Jr., to Anelex Corp. Print drum type matrix and sequential line printing control. 3,322,064, 5–30–67, Cl. 101—93.

Sims, John C., Jr., to Anelex Corp. Reproducing system for phase modulated magnetically recorded data. 3,323,115, 5–30–67, Cl. 340—174.1.

Sims, John C., Jr., to Anelex Corp. Selective hammer interposing means in high speed printers. 3,332,343, 7–25–67, Cl. 101—93.

Sims, John C., Jr., to Anelex Corp. Stored data protection system. 3,340,539, 9–5–67, Cl. 346—74.

Sims, Leland W., and R. W. Fredette, to United States of America, Air Force. High speed deceleration device. 3,350,040, 10–31–67, Cl. 244—145.

Sims, Marion W., to General Electric Co. Method for altering the overall configuration of electrical coils wound from a number of conductor turns. 3,333,335, 8–1–67, Cl. 29—606.

Sims, Norman D.: *See*—
Bynum, George D., and Sims. 3,309,734.

Sims, Robert W., to Monsanto Co. Gas-liquid separator. 3,339,350, 9–5–67, Cl. 55—320.

Sims, Robert Y., and A. I. Bottner, to International Telephone and Telegraph Corp. Telephone equipment housing. 3,309,576, 3–14–67, Cl. 317—99.

Sims, Willard M.: *See*—
Aelion, Rene, Eirich, and Sims. 3,337,648.
Grillo, Gerald J., Aelion, and Sims. 3,325,561.
Honn, Francis J., and Sims. 3,318,854.

Simshauser, Herbert H. Machine for crushing cans, bottles and the like. 3,315,594, 4–25–67, Cl. 100—52.

Simson, Johann P.: *See*—
Jakob, Franz, and Simson. 3,356,856.

Sinaiko, Edwin S. Method of and means for diagnosis of ingested drugs with radio-opaque and other indicators. 3,341,417, 9–12–67, Cl. 167—84.5.

Sinatra, Charles E., and W. Tanski, Jr., to Star Dental Mfg. Co., Inc. Finger control for dental handpiece. 3,346,958, 10–17–67, Cl. 32—28.

Sincavage, Joseph T., and G. Suranyi, to FMC Corp. Urea formaldehyde-alpha cellulose-dimethyl siloxane polymer-molding compositions and method of manufacture. 3,336,248, 8–15–67, Cl. 260—17.3.

Sinclus, Joseph A.: *See*—
Cohen, Abraham B., and Sinclus. 3,345,164.

Sinclair, Alan G.: *See*—
Sharples, Kenneth, and Sinclair. 3,313,614.

Sinclair, Alfred G., to Johns-Manville Corp. Method and apparatus for forming mineral wool products. 3,331,669, 7–18–67, Cl. 65—4.

Sinclair, Carter, to General Electric Co. Deenergizing circuit. 3,340,407, 9–5–67, Cl. 307—101.

Sinclair, Gabriel J., to Interchemical Corp. Flexographic inks containing soluble dyes. 3,353,972, 11–21–67, Cl. 106—22.

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Siviy, George, to Westinghouse Electric Corp. Electric knife switches with simplified contact pressure adjustments. 3,356,815, 12–5–67, Cl. 200—162.

Siviy, George, and V. F. Sabol, to Westinghouse Electric Corp. Operating mechanisms for electric switch structures. 3,316,366, 4–25–67, Cl. 200—48.

Siwinski, George W.: *See*—
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Siwy, Daniel J.: *See*—
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Sixel, Gustav A., and W. Hess, to Beteiligungs und Patentverwaltungsgesellschaft mit beschrankter Haftung. Smelting furnace for the production of steel. 3,353,807, 11–21–67, Cl. 266—11.

Sizer, Phillip S., V. R. Cherry, and L. M. Wilhoit, to Otis Engineering Corp. Apparatus for controlling flow within a well. Re. 26,149, 1–24–67, Cl. 166—72.

Sjöberg, Goran R., to Arenco Aktiebolag. Device for laterally transferring cigars or the like from one conveying means to another. 3,346,093, 10–10–67, Cl. 198—22.

Sjöberg, Sten O. E., to Industriaktiebolaget Skomab. Control device for double-acting fluid pressure cylinders. 3,319,-530, 5–16–67, Cl. 91—275.

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Sjoholm, Claes B., to Alfa-Laval AB. Method and apparatus for producing cheese. 3,295,205, 1–3–67, Cl. 31—89.

Sjölin, Carl-Gustav, to Aktiebolaget Bofors. Method of and device for measuring the wear in a gun barrel. 3,327,518, 6–27–67, Cl. 73—7.

Sjoquist, John W.: *See*—
Cummings, Lowell O., Sjoquist, and Kneeland. 3,332,899.

Sjöstrand, Carl E.: *See*—
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Sjostrom, John O. H., to Aktiebolaget Hagglund & Soner. Multicar bulk transporter and method. 3,307,718, 3–7–67, Cl. 214—38.

Skaare, Peter B. Reusable stakes. 3,300,920, 1–31–67, Cl. 52—150.

Skains, Thurman Q. Irrigation pipe supporting carriage. 3,339,576, 9–5–67, Cl. 137—344.

Skala, Stephen F., to Western Electric Co., Inc. Process of detecting the relative elongation of two filaments by stimulated emission of secondary radiation. 3,320,416, 5–16–67, Cl. 250—51.5.

Skaletzky, Louis L., to The Upjohn Co. 3a and 5a tertiaryamino cycloalkylene of 5 to 7 [a] benzofuranols. 3,317,527, 5–2–67, Cl. 260—247.7.

Skaletzky, Louis L., to The Upjohn Co. 2-amino-2,3-dihydro-3-substituted-naphtho[1,2-b]furan-5-ols. 3,337,563, 8–22–67, Cl. 260—294.7.

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Skalla, Norbert F.: *See*—
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Skandallaris, Phil. Fluid supply mechanism for standard paint roll equipment. 3,340,562, 9–12–67, Cl. 15—575.

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Skanes, Frederick A., and R. W. Logue, to International Harvester Co. Endless track drive shoe. 3,355,224, 11–28–67, Cl. 305—53.

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Skatsche, Othmar, to H. List. Cylinder head of an internal combustion engine comprising two intake and two exhaust valves for each cylinder. 3,331,359, 7–18–67, Cl. 123—75.

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Skau, Evald L., R. R. Mod, and F. C. Magne, to United States of America, Agriculture. N-oleoyl-4-(3-acetoxypropyl) piperidine. 3,297,703, 1–10–67, Cl. 260—294.3.

Skau, Evald L., R. R. Mod, and F. C. Magne, to United States of America, Agriculture. N-acyl derivatives of cyclic imines. 3,300,434, 1–24–67, Cl. 260—30.2

Skau, Evald L., R. M. Mod, and F. C. Magne, to United States of America, Agriculture. N-acyl derivatives of cyclic imines as polyvinyl chloride polymer plasticizers. 3,309,332, 3–14–67, Cl. 260—30.2.

Skau, Evald L., R. R. Mod, and F. C. Magne, to United States of America, Agriculture. Ethyl 2,2-dimethyl-3-(4-n-nonylpiperidino) carbonyl cyclobutano acetate. 3,322,777, 5–30–67, Cl. 260—294.3.

Skau, Evald L., R. R. Mod, and F. C. Magne, to United States of America, Agriculture. N-oleoyl-1,2,3,4-tetrahydroquinoline. 3,332,954, 7–25–67, Cl. 260—287.

Skau, Evald L., R. R. Mod, and F. C. Magne, to United States of America, Agriculture. Piperidedes of dimer acids. 3,336,-319, 8–15–67, Cl. 260—294.

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Skelskie, Stanley I., to Ocean Spray Cranberries, Inc. Processes for making whole cranberry sauce. 3,360,379, 12–26–67, Cl. 99—129.

Skelskie, Stanley I., to Ocean Spray Cranberries, Inc. Method of making frozen dinner cranberry component. 3,360,385, 12–26–67, Cl. 99—193.

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Skendrovic, Lawrence. Full flow valve. 3,325,141, 6–13–67, Cl. 251—302.

Skendrovic, Lawrence. Mobile furnace delining machine. 3,354,967, 11–28–67, Cl. 173—43.

Skett, Herbert E., to R. J. Fullwood & Bland Ltd. Animal feeding apparatus. 3,317,028, 5–2–67, Cl. 198—37.

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Frenzel, Carl J., and Green. Re. 26,180.
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Skinner, Clayton H., to Hewitt-Robbins Inc. Fitting for hose having switch means for remotely controlling various devices. 3,316,369, 4–25–67, Cl. 200—61.85.

Skinner, Clayton H., and P. Kolarik, to Hewitt-Robins Inc. Float for submarine hose system. 3,332,093, 7–25–67, Cl. 9—8.

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Skinner, Earl R. Swaging means. 3,304,762, 2–21–67, Cl. 72—479.

Skinner, Edward T. Packing cone with doubly curved surfaces. 3,330,569, 7–11–67, Cl. 277—212.

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Skirvin, Clifford D., to Microdot Inc. AM and FM transmitter. 3,311,830, 3–28–67, Cl. 325—105.

Skirvin, Enoch and W. and P. G. Rotatable log bunk. 3,350,-116, 10–31–67, Cl. 280—404.

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Skirvin, Enoch and W. and P. G. 3,350,116.
Skirvin, Enoch and W. W. and P. G. 3,356,387.

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Skirvin, Enoch, W. and P. G. 3,350,116.

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Sklaroff, Morton, to Honeywell Inc. Step motor including permanent magnet rotor and sectioned stator. 3,344,325, 9–26–67, Cl. 318—138.

Skljadnov, Viktor M.: *See*—
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Skoog, Edward K., and C. R. Eckardt, to Allied Chemical Corp. Synthetic linear polyamides delustered with modified titanium dioxide delustrant. 3,324,071, 6–6–67, Cl. 260—37.

Skoog, Ivan H., to Minnesota Mining and Mfg. Co. Aluminum borohydride complexes. 3,305,569, 2–21–67, Cl. 260—448.

Skoog, Karl I. L., to Aktiebolaget Gylling & Co. Amplifier with two channels for two way speech connection. 3,324,-256, 6–6–67, Cl. 179—170.

Skooglund, John W., and W. H. Ferguson, Jr., to Westinghouse Electric Corp. Current responsive light varying means and light sensitive means responsive to the variations. 3,335,367, 8–8–67, Cl. 324—96.

Skopek, Jan, to Zavody V. I., Lenina Plzen, narodni podnik. Device for removing water from the stages of steam turbines. 3,318,077, 5–9–67, Cl. 55—447.

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Skorey, John M., and L. E. Warner. Article dispensing machine with adjustable magazine. 3,298,570, 1–17–67, Cl. 221—242.

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Skov, Erling P., to Ampex Corp. Oscillator-amplifier circuit utilizing recording amplifier for high frequency recording bias supply. 3,324,250, 6–6–67, Cl. 179—100.2.

Skovronek, Herbert S., to Texaco Inc. 2,2-dihydroxymethylalkyl hydrocarbonthiophosphonates and method of preparation. 3,301,923, 1–31–67, Cl. 260—953.

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Skreckoski, Gerald R., to Allied Chemical Corp. Catalyzed storage-stable quick drying coating composition containing polyurethane-polyisocyanate film former. 3,351,573, 11–7–67, Cl. 260—18.

Skreckoski, Gerald R., and M. E. Bailey, to Allied Chemical Corp. Polyurethane coating compositions derived from a polyester of Δ4-tetrahydrophthalic acid and a polyol. 3,341,498, 9–12–67, Cl. 260—75.

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Blaga, Aurel, and Skrypa. 3,351,601.

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Skuderna, John E. Triangle calculator. 3,339,838, 9–5–67, Cl. 235—61.

Skufca, Francisco. Transporter truck for industrial establishments. 3,297,276, 1–10–67, Cl. 242—131.

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Slade, Albert E., and C. R. Smallman, to Arthur D. Little, Inc. Method of treating reflective surfaces to make them multihued and resulting product. 3,338,730, 8–29–67, Cl. 117—8.

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Slaght, William F., to Her Majesty the Queen in right of Canada as represented by Canadian Patents and Development Ltd., National Research Council. Transponder beacons. 3,321,756, 5–23–67, Cl. 343—6.8.

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Slapnik, Joseph, to Koppers Co., Inc. Stackable molded plastic containers. 3,331,529, 7–18–67, Cl. 220—97.

Slatcher, Reginald P., to Imperial Chemical Industries Ltd. Alkylamino quinoxalyl ethanols. 3,308,021, 3–7–67, Cl. 167—65.

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Slater, George E., and D. W. James, to Rockwell-Standard Corp. Thermal bypass valve with bimetallic control. 3,300,135, 1–24–67, Cl. 236—34.5.

Slater, John M., to North American Aviation, Inc. Vehicle optical alignment device. 3,310,877, 3–28–67, Cl. 33—61.

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Slater, Raymond L., and W. F. Fisher, to Clevite Corp. Method of making bimetallic bearing material. 3,300,836, 1–31–67, Cl. 29—149.5.

Slater, Raymond L., and W. F. Fisher, to Clevite Corp. Method of making bimetallic bearing material. 3,300,838, 1–31–67, Cl. 29—149.5.

Slater, Richard J., to G. T. Schjeldahl Co. Tailored woven gores for heavy load balloon. 3,311,328, 3–28–67, Cl. 244—31.

Slater, Saul I., to Slater Electric, Inc. Continuously variable dimmer switch. 3,328,676, 6–27–67, Cl. 323—22.

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Slatin, Harvey L., to Timax Associates. Electrolytic production of tungsten and molybdenum. 3,297,553, 1–10–67, Cl. 204—64.

Slatin, Harvey L., to Timax Associates. Electrolytic production of tungsten and molybdenum. 3,297,554, 1–10–67, Cl. 204—64.

Slator, Damon T., and D. W. Pilcher, to Bowen Tools, Inc. Control system for handling varying loads. 3,330,531, 7–11–67, Cl. 253—1.

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Kemp, Robert F., Sellen, and Slattery. 3,300,717.

Slattery, James P. Motor stall responsive relay for level control device. 3,296,497, 1–3–67, Cl. 317—123.

Slattery, Leo F.: *See*—
Bollesen, Vernon P., and Slattery. 3,317,896.

Slattery, Leo F., L. W. Gallup, and H. W. Schoenherr, to Control Data Corp. Phase inverting direct current amplifier circuit. 3,299,363, 1–17–67, Cl. 328—209.

Slattery, Robert E., to L. W. Menzimer, Trustee. Friction type automobile door hold-open means. 3,345,680, 10–10–67, Cl. 16—140.

Slattery, Thomas W.: *See*—
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Slaugh, Lynn H., to Shell Oil Co. Process for the partial reduction of aromatics. 3,308,178, 3–7–67, Cl. 260—667.

Slaugh, Lynn H., to Shell Oil Co. Process for reducing nitric oxide to nitrous oxide. 3,321,274, 5–23–67, Cl. 23—157.

Slaugh, Lynn H., to Shell Oil Co. Cyclohexene production. 3,321,539, 5–23–67, Cl. 260—666.

Slaugh, Lynn H., to Shell Oil Co. Hydrodimerization of benzene. 3,347,945, 10–17–67, Cl. 260—668.

Slaughter, Abe A. Unsinkable boat. 3,304,905, 2–21–67, Cl. 115—19.

Slaughter, Clarence S. Fluid particle coupling. 3,305,055, 2–21–67, Cl. 192—21.5.

Slaughter, William L., to The Crane & Breed Casket Co. Casket seal. 3,327,429, 6–27–67, Cl. 49—485.

Slaughter, William L., to The Crane & Breed Casket Co. Casket top and method of manufacture. 3,354,524, 11–28–67, Cl. 27—17.

Slaughter, William M. Submersible pump adapter. 3,303,-795, 2–14–67, Cl. 103—202.

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Peek, Robert L., Jr., and Slauson. 3,325,755.

Slavick, Nicholas A. Contour garment. 3,329,966, 7–11–67, Cl. 2—2.1.

Slavik, William H., to Motorola, Inc. Dynamic pincushion distortion correction for television receivers. 3,302,055, 1–31–67, Cl. 315—24.

Slavik, William H., to Motorola, Inc. Vertical dynamic pincushion correction circuits for television receivers. 3,320,-469, 5–16–67, Cl. 315—24.

Slavik, William H., to Motorola, Inc. Horizontal scan width and high voltage regulation circuit for television receivers. 3,359,453, 12–19–67, Cl. 315—27.

Slavin, Michael: *See*—
Laurent, Harold J., Slavin, and Pelletier. 3,331,128.
Weaver, Richard D., Miller, and Slavin. 3,315,780.

Slavin, Michael, and C. A. B. Carvalho, to The Bendix Corp. Reflex amplifier circuit which effectively eliminates audio feedthrough. 3,316,489, 4–25–67, Cl. 325—486.

Slavin, Michael, and G. B. Morris, Jr. Variable speed control for a DC motor. 3,345,551, 10–3–67, Cl. 318—345.

Slavin, Peter E., to Intelligent Instruments, Inc. Logarithmic computer. 3,327,100, 6–20–67, Cl. 235—150.53.

Slavin, Peter E., to Intelligent Instruments, Inc. Mount for electronic tubes. 3,353,069, 11–14–67, Cl. 317—101.

Slawinski, Richard C., and W. Meyer, to Wheaton Brass Works. Coupling valve. 3,330,299, 7–11–67, Cl. 137—614.

Slawinski, Richard C., and W. Meyer, to Wheaton Brass Works. Hydraulic emergency valve. 3,332,660, 7–25–67, Cl. 251—14.

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Carbajal, Bernard G., III, and Slay. 3,344,055.

Slaybaugh, Lyle, to Kellogg Co. Apparatus for the production of food product. 3,315,619, 4–25–67, Cl. 107—69.

Slayton, Wayland F. Self-adjusting and locking wrench. 3,354,758, 11–28–67, Cl. 81—126.

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Slee, Max E. Primer reloader. 3,349,663, 10–31–67, Cl. 86—38.

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Sleeper, George B., Jr., to Technical Appliance Corp. Multimode broad-band selective coupler. 3,327,250, 6–20–67, Cl. 333—21.

Sleeper, George B., Jr., to Technical Appliance Corp. Directional radio and tracking systems. 3,343,165, 9–19–67, Cl. 343—16.

Sleeper and Hartley, Inc.: *See*—
Halvorsen, Elmer W., and Russell. 3,351,101.

Sleeper, Ralph R., Jr. Corner plaster bead applicator. 3,319,-953, 5–16–67, Cl. 269—19.

Sleeter, Edward B., to Marathon Electric Mfg. Corp. Electric motor for pedestal type sump pumps. 3,324,319, 6–6–67, Cl. 310—68.

Sleighter, George E.: *See*—
Chisholm, Raymond S., Sleighter, and Ernsberger. 3,356,-477.
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Slemmons, Arthur J., to FMC Corp. Apparatus for propelling buoyant vehicles. 3,310,020, 3–21–67, Cl. 115—1.

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Slesaczek, Alfred: *See*—
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Slethack, Jarle, L. G. Virsberg, and N. Hylten-Cavallius, to Allmanna Svenska Elektriska Aktiebolaget. Device for transforming a first alternating voltage of a certain frequency to a second voltage of another frequency. 3,358,-213, 12–12–67, Cl. 321—50.

Sletbak, Jarle, G. Nilsson, and L. Virsberg, to Allmanna Svenska Elektriska Aktiebolaget. Frequency changer with a plurality of transformers and a synchronously rotating means. 3,359,482, 12–19–67, Cl. 321—70.

Sletzinger, Meyer: *See*—
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Gal, George, and Sletzinger. 3,320,280.
Reinhold, Donald F., and Sletzinger. 3,344,023.

Sletzinger, Meyer, to Merck & Co., Inc. Novel 6-fluoro-Δ6-steroids and processes. 3,359,288, 12–19–67, Cl. 260—397.45.

Sletzinger, Meyer, W. A. Gaines, and V. J. Grenda, to Merck & Co., Inc. Chemical processes for preparing N-substituted amidines. 3,299,081, 1–17–67, Cl. 260—302.

Sletzinger, Meyer, and R. A. Firestone, to Merck & Co., Inc. 3-indolyl aliphatic acids. 3,322,786, 5–30–67, Cl. 260—326.12.

Sletzinger, Meyer, G. Gal, and E. J. Glamkowski, to Merck & Co., Inc. Alpha-hydrazino-beta-(3-indolyl) alkanoic acid derivatives. 3,322,787, 5–30–67, Cl. 260—326.14.

Sletzinger, Meyer, and D. F. Reinhold, to Merck & Co., Inc. 6α,16α-Dialkyl steroids and intermediates. 3,347,881, 10–17–67, Cl. 260—397.47.

Sletzinger, Meyer, R. A. Firestone, and D. F. Reinhold, to Merck & Co., Inc. 2-substituted-2-aminoethyl-3-substituted phenylalanine. 3,347,905, 10–17–67, Cl. 260—471.

Slicer, Allan E.: *See*—
Jorgensen, George N., Vincent, and Slicer. 3,339,038.

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Stewart, Duncan J., Lilja, and Slichter. 3,300,860.

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Slicker, Robert P., E. C. Held, Jr., J. L. Rakes, to Phillips Petroleum Co. Molding using a material yielding an inert atmosphere in mold. 3,329,751, 7–4–67, Cl. 264—85.

Slifer, William M., Jr. Method and apparatus for locating and visually indicating the position of a vehicle. 3,357,020, 12–5–67, Cl. 343—100.

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Sliker, Lawrence S., to International Scanning Devices Ltd. Scanning device. 3,337,683, 8–22–67, Cl. 178—5.4.

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Silman, Michael T. Curler bonnet. 3,320,682, 5–23–67, Cl. 34—95.

Slimovitz, Morris L. Feel glove with flap holddown. 3,299,-441, 1–24–67, Cl. 2—158.

Slinkard, James E., to R. E. Breidenthal. Electric cord reel apparatus. 3,346,705, 10–10–67, Cl. 191—12.4.

Slip International Ltd.: *See*—
Tacchi, Percy G. 3,356,101.

Slip Pruf Service Corp.: *See*—
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Slipp, Roy M. Method of manufacturing plastic products. 3,320,344, 5–16–67, Cl. 264—219.

Slisz, Roger T., and H. L. Seiden, to Linn Mfg. Corp. Step-multiplying ratchet wheel drive. 3,303,709, 2–14–67, Cl. 74—142.

Slivinsky, Cornell J., and S. Steed, to Parsons Corp. Helicopter spar having integral mass and stiffness control provisions. 3,310,117, 3–21–67, Cl. 170—159.

Slivoski, Wallace R., 50% to S. Solomon, and 25% to F. Palette. Mattress extension. 3,327,328, 6–27–67, Cl. 5—317.

Sloan, Charles S. Indicator lamp. 3,300,638, 1–24–67, Cl. 240—8.16.

Sloan, Charles W., and J. D. Orr. Occupant-propelled amusement vehicle. 3,304,098, 2–14–67, Cl. 280—221.

Sloan, Donald A.: *See*—
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Sloan, Donald D. Dennison Mfg. Co. Apparatus for developing electrostatic images. 3,356,072, 12–5–67, Cl. 118—637.

Sloan, Douglas M., and A. Tunner, to Canadian Industries Ltd. Apparatus for making gusseted plastic bags. 3,321,-354, 5–23–67, Cl. 156—499.

Sloan, Flora M. and H. J. Electrically heated ice cream scoop. 3,304,890, 2–21–67, Cl. 107—48.

Sloan, Harriet L. Accessories for hairdos and articles of apparel. 3,357,070, 12–12–67, Cl. 24—255.

Sloan, Haskell F.: *See*—
Breternitz, Charles, Dale, and Sloan. 3,319,767.

Sloan, Howard J.: *See*—
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Sloan, Kenneth T.: *See*—
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Sloan, Louis, N. J. Nitti, and J. B. Pratt, to Crane Co. Method and apparatus for fluid treatment. 3,306,859, 2–28–67, Cl. 252—387.

Sloan, Louise M. Brush. 3,355,759, 12–5–67, Cl. 15—206.

Sloan, Rollin J., and G. J. McCulloch, to Trak Microwave Corp. Direction finding system for hunting dogs. 3,336,530, 8–15–67, Cl. 325—29.

Sloan, Thomas F.: *See*—
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Slocombe, Robert J., to Monsanto Co. Vinyl chloride interpolymers and process. 3,356,637, 12–5–67, Cl. 260—33.6.

Slocombe, Robert J., I. O. Salyer, and S. Newman, to Monsanto Co. Process of crystallizing isotactic polystyrene. 3,346,-528, 10–10–67, Cl. 260—30.6.

Sloley, Herbert J.: *See*—
Woodhead, Harry S., Sloley, and Waugh. 3,329,914.
Slominski, Leo J., to MacDermid Inc. Composition for and method of dissolving copper and copper alloys by chemical action. 3,322,673, 5–30–67, Cl. 252—79.2.
Slominski, Walter V., to Hoover Ball and Bearing Co. Spring assembly with independent coil spring unit. 3,334,887, 8–8–67, Cl. 267—110.
Slominski, Walter V., to Hoover Ball and Bearing Co. Seat spring assembly utilizing auxiliary coil spring. 3,357,695, 12–12–67, Cl. 267—110.
Slomski, Edward J. Seam release container. 3,330,436, 7–11–67, Cl. 220—53.
Slonczewski, Thaddeus, to Bell Telephone Laboratories, Inc. Equipment for and method of retrieving underwater cable. 3,319,426, 5–16–67, Cl. 61—72.3.
Slone, Thomas J., to American Instrument Co., Inc. Control circuit for an adsorption or desorption system. 3,295,720, 1–3–67, Cl. 222—3.
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Slonneger, John L., to General Electric Co. Condition responsive electric switch mechanism. 3,304,395, 2–14–67, Cl. 200—140.
Slonneger, John L., to General Electric Co. Condition responsive electric switch mechanism. 3,354,280, 11–21–67, Cl. 200—140.
Sloop, Clifford E. Meter box assembly with cover seal and inner seal. 3,307,081, 2–28–67, Cl. 317—107.
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Sloper, Leonard, and P. Rezner, to American Flange & Mfg. Co., Inc. Vent end closure cap assembly. 3,302,816, 2–7–67, Cl. 220—31.
Slosberg, David K., to American Biltrite Rubber Co., Inc. Vinyl-acrylic floor covering and process. 3,310,619, 3–21–67, Cl. 264—77.
Slosberg, David K., to Bonafide Mills, Inc. Plastic floor covering. 3,322,872, 5–30–67, Cl. 264—115.
Slott, Robert S., to Shell Oil Co. Separation process. 3,352,-936, 11–14–67, Cl. 260—677.
Slough, Carlton M., to Texaco Experiment Inc. Electric initiator. 3,302,571, 2–7–67, Cl. 102—70.2.
Sloughter, William J., to Schlumberger Technology Corp. Electromagnetic well logging systems with means for modulating the detected signals. 3,328,679, 6–27–67, Cl. 324—6.
Sloughter, William J., to Schlumberger Technology Corp. Well logging telemetry system including depth synchronizing a remote recorder and error detection of the transmitted data. 3,356,990, 12–5–67, Cl. 340—18.
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Slovinsky, Manuel, to Celanese Corp. Polyethers and methods of making same. 3,313,846, 4–11–67, Cl. 260—484.
Sloyan, Jerome J. Machinery supports with slidable carriage. 3,328,093, 6–27–67, Cl. 308—6.
Sluse, Peter A. Support fixture for automobile components. 3,338,556, 8–29–67, Cl. 254—134.
Slusher, William E., and S. Karandanis, to Transitron Electronic Corp. Semi-conductor amplifying device. 3,300,-658, 1–24–67, Cl. 307—88.5.
Slusser, Benjamin L., to Hurr-I-Cane Awning Shutter Co., Inc. Water seal for roof construction. 3,352,077, 11–14–67, Cl. 52—469.
Slusser, Marion L., to Mobil Oil Corp. Thermal notching technique. 3,303,883, 2–14–67, Cl. 166—39.
Slusser, Marion L., to Mobil Oil Corp. Method for in situ retorting of oil shale employing artificial barriers. 3,331,438, 7–18–67, Cl. 166—29.
Slusser, Marion L., to Mobil Oil Corp. Method and structure for retorting oil shale in situ by cycling fluid flows. 3,346,-044, 10–10–67, Cl. 166—2.
Slusser, Marion L., and C. Connally, Jr., to Mobil Oil Corp. Method for improving fluid recoveries from earthen formations. 3,302,707, 2–7–67, Cl. 166—4.
Slutsky, Abraham. Taxi meters and a control system for taxi meters. 3,325,097, 6–13–67, Cl. 235—30.
Slykhouse, Thomas E., to The Dow Chemical Co. Water resistant inorganic nitrate based explosive composition. 3,326,734, 6–20–67, Cl. 149—41.
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Smale, Charles H., to General Motors Corp. Air by-pass arrangement operated by differential air pressure. 3,353,-551, 11–21–67, Cl. 137—114.
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Small, Charles L., to Hendrickson Mfg. Co. Vehicle axle suspension. 3,315,977, 4–25–67, Cl. 280—104.5.
Small, Charles L., to Hendrickson Mfg. Co. Shear spring suspension. 3,356,385, 12–5–67, Cl. 280—104.5.
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Small, Donald E. Renewable face hammer. 3,322,172, 5–30–67, Cl. 145—36.
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Small, Guy W. Machine for pre-nailing and pre-tacking carpet strips. 3,306,511, 2–28–67, Cl. 227—103.
Small, Hamish, to The Dow Chemical Co. Method of separation of lower alkyl mono- and dialcohols, acetone and methylethylketone, and ethylamine and butyl amine with novel ion exchange. 3,315,002, 4–18–67, Cl. 260—637.
Small, Hamish, to The Dow Chemical Co. Preparation of chelate cation-exchange resins. 3,337,480, 8–22–67, Cl. 260—2.2.
Small, John H.: *See*—
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Small, Percy A.: *See*—
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Small, William A., to Mallinckrodt Chemical Works. Process for controlling spring dead spot on grass. 3,323,985, 6–6–67, Cl. 167—22.
Smalley, Harvey D. Disposable center feed ink fountain. 3,326,123, 6–20–67, Cl. 101—365.
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Smart, E. Allen, and T. G. Daber, to General Electric Co. Electric warming tray. 3,335,262, 8–8–67, Cl. 219—474.
Smart, Lee W., to Westinghouse Electric Corp. Semiconductor devices capable of supporting large reverse voltages. 3,335,-296, 8–8–67, Cl. 307—88.5.
Smart, Louis L. Golf course. 3,350,099, 10–31–67, Cl. 273—176.
Smart, Richard: *See*—
Kealy, Wellesley A., Smart, and Duncombe. 3,296,864.
Smart, William D.: *See*—
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Smelcer, Glen E., to International Harvester Co. Drive wheel mounting including releasable clamping axle connection 3,302,959, 2–7–67, Cl. 287—52.61.

Smelts, Gerard G. F., to Pierce-All Mfg. Ltd. Punch assembly. 3,335,627, 8–15–67, Cl. 83—140.
Smeltzer, Jack C., to The Bunker-Ramo Corp. Memory transfer apparatus. 3,341,817, 9–12–67, Cl. 340—172.5.
Smeltzer, Jack C., to The Bunker-Ramo Corp. Digital computer system. 3,346,852, 10–10–67, Cl. 340—172.5.
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Smerdon, William S., to Ferranti, Ltd. Aircraft bombsights. 3,339,456, 9–5–67, Cl. 89—1.5.
Smeton, Robert L. Hypodermic syringes and attachments thereto pleasing to children. 3,299,891, 1–24–67, Cl. 128—218.
Smets, Georges J. G., and J. P. Bex, to W. R. Grace & Co. Electrolytic process for graft polymerization. 3,330,745, 7–11–67, Cl. 204—59.
Smeulers, Wouter, to North American Phillips Co., Inc. Circuit for controlling the oscillation frequency of transistorized sawtooth oscillators. 3,311,847, 3–28–67, Cl. 331—111.
Smeulers, Wouter, to North American Phillips Co., Inc. Relaxation oscillator having combined direct and indirect synchronization. 3,359,505, 12–19–67, Cl. 331—10.
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Dostrup, Max. 3,350,070.
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Smierciak, Walter, to Wilton Corp. Clamping means having hydraulic power assisting devices. 3,348,836, 10–24–67, Cl. 269—25.
Smiles, Robert E.: *See*—
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Storm, Frederick K., Jr., and Smiley. 3,348,254.
Smiley, Harry J., and H. F. Nowicki, to Burlington Industries, Inc. Pile fabric with integrally formed twist. 3,298,-342, 1–17–67, Cl. 112—410.
Smiley, James I., Jr., to E. I. du Pont de Nemours and Co. Apparatus and process for continuously winding yarn. 3,342,428, 9–19–67, Cl. 242—18.
Smiley, James M. Gear operated wrench. 3,306,140, 2–28–67, Cl. 81—56.
Smiley, Karl L., to United States of America, Agriculture. Process for obtaining amyloglucosidase. 3,301,768, 1–31–67, Cl. 195—66.
Smiley, Robert A., to E. I. du Pont de Nemours and Co. Process for preparing tetra(di-fluoroamino) hexane-diol dinitrate. 3,331,867, 7–18–67, Cl. 260—467.
Smiley, Robert A., to E. I. du Pont de Nemours and Co. 1,2-bis(difluoroamino)ethylnitramine and process of preparation. 3,337,629, 8–22–67, Cl. 260—583.
Smiley, Robert A., to E. I. du Pont de Nemours and Co. Difluoroamino alkyl nitrate preparation. 3,347,903, 10–17–67, Cl. 260—462.
Smiley, Robert A., to E. I. du Pont de Nemours and Co. Difluoroamino aliphatic dinitrates. 3,347,904, 10–17–67, Cl. 260—467.
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Smiley, Seymour H., to United States of America, Atomic Energy Commission. Production of low particle size-high surface area metal powders. 3,341,320, 9–12–67, Cl. 75—.5.
Smiley, William D., to Esso Production Research Co. Tungsten carbide compositions, method and cutting tool. 3,301,-645, 1–31–67, Cl. 51—309.
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Smirl, Richard L., to Borg-Warner Corp. Multiple plate clutch constructions. 3,317,013, 5–2–67, Cl. 192—69.
Smirl, Richard L., to Borg-Warner Corp. Cover plate for friction device. 3,335,595, 8–15–67, Cl. 72—324.
Smirl, Richard L., to Borg-Warner Corp. Rotary friction coupling employing transverse engaging springs. 3,335,833, 8–15–67, Cl. 192—68.
Smirl, Richard L., M. Waclawek, J. W. Adelman, and E. F. LaBuda, to Borg-Warner Corp. Control valve for automatic clutch control. 3,339,575, 9–5–67, Cl. 137—115.
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Schaefer, John W. 3,313,428.
Smith, Aaron H., to Signal Mfg. Co. Apparatus for selectively polishing, scrubbing and cleaning floors. 3,316,579, 5–2–67, Cl. 15—320.
Smith, Aarou H., G. W. Webb, and J. Hazard, to Signal Mfg. Co. Vacuum cleaning nozzle with rug beating means. 3,329,-989, 7–11–67, Cl. 15—382.
Smith, Addison R., II, to Anaconda Aluminum Co. Manufacture of electrical coils. 3,334,413, 8–8–67, Cl. 29—605.
Smith, Alan J., and J. K. Warren, to Minnesota Mining & Mfg. Co. Electrolytic electrocopying method and apparatus. 3,305,459, 2–21–67, Cl. 204—18.
Smith, Albert A. Method and apparatus for drying fields. 3,324,846, 6–13–67, Cl. 126—271.1.
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Smith, Archibald H. Methods of making three dimensional contoured articles from nonwoven fabrics of fibrous materials. 3,352,954, 11–14–67, Cl. 264—90.
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Smith, Arthur L., to Radio Corp. of America. Process for preparing lanthanum yttrium or lutetium phosphate phosphors. 3,322,681, 5–30–67, Cl. 252—301.4.
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Smith, Aubrey H., and L. T. Christensen, to Eaton Yale & Towne, Inc. Controlled velocity drive. 3,351,791, 11–7–67, Cl. 310—94.
Smith, Benjamin T., J. P. Ross, Jr., and J. E. Trexler, Jr., to Newport News Shipbuilding and Dry Dock Co. Adjustable ball valve apparatus. 3,339,884, 9–5–67, Cl. 251—161.
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Curl, Donald S. 3,296,763.

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Smith, Bernard J., to General Electric Co. Cathode ray tube electron gun mount with unitary magnetic centering and gettering means. 3,316,432, 4-25-67, Cl. 313—75.

Smith, Berny L., to Automated Building Components, Inc. Apparatus for manufacturing structural wooden device. 3,334,-579, 8-8-67, Cl. 100—226.

Smith, Berny L., to Automated Building Components, Inc. Apparatus for manufacturing structural wooden devices. 3,334,-580, 8-8-67, Cl. 100—226.

Smith, Bessie I.: *See*—
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Smith, Bird J.: *See*—
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Smith, Bob H., R. M. Main, and A. Ghiorso, to United States of America, Atomic Energy Commission. Method and apparatus for accelerating ions of any mass. 3,328,708, 6-27-67, Cl. 328—235.

Smith, Bobbie R. Slurry pump. 3,326,135, 6-20-67, Cl. 103—49.

Smith, Brian, and F. P. Davey, to Cigarette Components Ltd. Method of producing filter cores. 3,329,544, 7-4-67, Cl. 156—167.

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Smith, Bruce K., to Gordon Engineering Corp. High voltage power supply. 3,322,949, 5-30-67, Cl. 250—100.

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Smith, Burton H., and S. F. Paik, to Raytheon Co. Pyrographite wave structures. 3,320,467, 5-16-67, Cl. 315—3.5.

Smith, Byron D., and R. R. Reisinger, to Nelex Corp. Coarse and fine head positioning apparatus for random access disc memory system. 3,298,008, 1-10-67, Cl. 340—174.1.

Smith, Carl E. Subdivision of a block of material into units of selected shapes and sizes. 3,333,494, 8-1-67, Cl. 83—1.

Smith, Carl K., to Amsted Industries, Inc. Concrete mixer and conveyor. 3,318,584, 5-9-67, Cl. 259—162.

Smith, Carl K., to Amsted Industries Inc. Pipe handling conveyor. 3,322,291, 5-30-67, Cl. 214—339.

Smith, Carl M., to Minnesota Mining and Mfg. Co. Curable composition containing a polyepoxide and an allylic polyphenolic novolac, free of methylol groups. 3,329,737, 7-4-67, Cl. 260—831.

Smith, Carl M., and R. L. Wear, to Minnesota Mining and Mfg. Co. Halogenated bisphenols and glycidyl polyethers thereof. 3,350,352, 10-31-67, Cl. 260—47.

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Smith, Charles A. Composite I-beam with splice at supports. 3,328,931, 7-4-67, Cl. 52—299.

Smith, Charles A., to Sperry Rand Corp. Manure spreader. 3,358,936, 12-19-67, Cl. 239—680.

Smith, Charles B. Erasable tracing devices. 3,315,378, 4-25-67, Cl. 35—61.

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Smith, Charles G., to The Upjohn Co. Process of controlling viral activity with pactamycin. 3,304,231, 2-14-67, Cl. 167—65.

Smith, Charles J., to Monroe Auto Equipment Co. Vehicle suspension device. 3,346,272, 10-10-67, Cl. 280—96.2.

Smith, Charles J., and A. J. Brungard, to General Electric Co. Mobile noise suppressor for fan-jet aircraft. 3,306,394, 2-28-67, Cl. 181—51.

Smith, Charles J., and H. W. Jamieson. Electroluminescent game ball. 3,351,347, 11-7-67, Cl. 273—213.

Smith, Charles J. P. Apparatus for manually digging out sods of turf. 3,319,988, 5-16-67, Cl. 294—50.8.

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Smith, Charles W., to The Bunker-Ramo Corp. Apparatus for assembling electrical components. 3,355,078, 11-28-67, Cl. 228—44.

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Smith, Clarence C., to Union Special Machine Co. Rotary can opener mechanism. 3,310,013, 3-21-67, Cl. 112—184.

Smith, Clarence C., to Union Special Machine Co. Feed mechanism for sewing machines. 3,339,509, 9-5-67, Cl. 112—210.

Smith, Clarence M., to Westinghouse Electric Corp. Angle plug. 3,335,395, 8-8-67, Cl. 339—107.

Smith, Clayton L., to General Motors Corp. Engine support structure. 3,327,473, 6-27-67, Cl. 60—39.31.

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Smith, Clifford D.: *See*—
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Smith, Clifford E. P., to Pullman Inc. Temperature and atmosphere control apparatus and method therefor. 3,307,-366, 3-7-67, Cl. 62—5.

Smith, Clowe B. Hydraulic jack trailer support. 3,341,179, 9-12-67, Cl. 254—86.

Smith, Cloyd D. Prefabricated modular panel structure and modular panel units therefor. 3,343,314, 9-26-67, Cl. 52—145.

Smith, Connie O., Jr. Hand truck unloading apparatus. 3,308,978, 3-14-67, Cl. 214—511.

Smith, Cornelius P., to The Dow Chemical Co. Process for preparing composite filamentary articles. 3,316,336, 4-25-67, Cl. 264—171.

Smith, Curtis W., and T. F. Mika, to Shell Oil Co. Resinous products from unsaturated heterocyclic compounds and method for preparing the same. 3,318,846, 5-9-67, Cl. 260—47.

Smith, Cyril E., and J. A. Tracy, to The Loewy Engineering Co. Ltd. Power-driven rotary brush for cleaning the rolls of a rolling mill. 3,349,420, 10-31-67, Cl. 15—21.

Smith, Dale A., and R. M. Truesdell, to Collins Radio Co. Gain control circuit with selectable attack time constant that is independent of a fixed decay time constant. 3,302,-117, 1-31-67, Cl. 325—410.

Smith, Dale R., to York Production Engineering Co. Apparatus for applying tear tape. 3,356,558, 12-5-67, Cl. 156—519.

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Smith, David C. Cable heater. 3,305,668, 2-21-67, Cl. 219—528.

Smith, David F. Plaster of paris bandage. 3,316,901, 5-2-67, Cl. 128—91.

Smith, David G., to Moffatts, Ltd. Hinge mechanism. 3,327,-701, 6-27-67, Cl. 126—194.

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Smith, David P. Mobile storage and dispensing device. 3,304,122, 2-14-67, Cl. 298—7.

Smith, David W. Method of gluing or regluing a joint. 3,352,-336, 11-14-67, Cl. 144—310.

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Smith, Dexter W., to Joseph Lucas Industries, Ltd. Method of making oxygen electrodes for alkaline fuel cells. 3,340,-098, 9-5-67, Cl. 136—120.

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Smith, Donald G., to Lockheed Aircraft Corp. Mounting and supporting apparatus for litters. 3,358,300, 12-19-67, Cl. 5—9.

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Smith, Donald L., to Wolverine Aluminum Corp. Framing system for a suspended ceiling. 3,356,402, 12-5-67, Cl. 287—189.36.

Smith, Donald L., and J. L. Ferrell, to Air Reduction Co., Inc. Nitrogen liquefaction with plural work expansion of feed as refrigerant. 3,358,460, 12-19-67, Cl. 62—9.

Smith, Donald T., and F. A. Cuetara, to General Electric Co. Process for deflashing articles. 3,313,067, 4-11-67, Cl. 51—320.

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Lewis, Richard L., Barnes, and Smith. 3,360,004.

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Smith, Douglas R., to The Dow Chemical Co. Process for the preparation of glycidyl esters. 3,335,156, 8-8-67, Cl. 260—348.6.

Smith, Dresden G., and P. T. Jones, to Jonesmith Co., Inc. Air pump with means for mounting on water tank. 3,331,-328,7-18-67, Cl. 103—6.

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Smith, Earl D., to Southern Pacific Land Co. Automatic car washing apparatus. 3,332,098, 7-25-67, Cl. 15—21.

Smith, Earl G., to Construction Machinery Co. Transmission control system. 3,332,298, 7-25-67, Cl. 74—472.

Smith, Earl W. Exerciser with elastic elements connecting supporting base and pivoted pole. 3,345,067, 10-3-67, Cl. 272—82.

Smith, Earl W., and M. Morgan, to Ben Pearson Inc. Bow string servings. 3,297,013, 1-10-67, Cl. 124—30.

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Smith, Edward A., 50% to H. H. Plumadore. Portable power-driven winch device. 3,323,398, 5-30-67, Cl. 254—186.

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Smith, Edwin J., M. G. Vucich, and L. W. Austin, to National Steel Corp. Base materials coated with an alloy of aluminum and manganese. Re. 26,223, 6-20-67, Cl. 29—196.2.

Smith, Edwin J., and L. D. McGraw, to National Steel Corp. Electrodeposition of metals. 3,355,368, 11-28-67, Cl. 204—14.

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Smith, Elbridge M., to Fuller Co. Dust collector. 3,325,979, 6-20-67, Cl. 55—302.

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Smith, Eric T., to Eastman Kodak Co. Liquid handling device. 3,342,376, 9-19-67, Cl. 222—64.

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Smith, Eugene S. Control device for an electrical switch. 3,304,444, 2-14-67, Cl. 307—112.

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Smith, Floyd A., J. W. Graybeal, and M. H. Parks, to Esso Production Research Co. Method of drilling and completion of wells in the earth and drilling fluid therefor. 3,302,-715, 2-7-67, Cl. 166—25.

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Smith, Forrest W. Facsimile coin embedded in plastic, and method of making same. 3,312,197, 4-4-67, Cl. 120—82.

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Smith, Frank E., to Eastman Kodak Co. Separation of tocopherols and sterols from deodorizer sludge and the like. 3,335,154, 8-8-67, Cl. 260—345.6.

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Smith, Frederick J., Jr., and D. M. Hawkins, to Westinghouse Electric Corp. Motor control system for coiling apparatus. 3,337,154, 8-22-67, Cl. 242—83.

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Smith, Gaylord, to E. I. du Pont de Nemours and Co. Cobalt-nickel base alloys containing chromium and molybdenum. 3,356,542, 12-5-67, Cl. 148—32.5.

Smith, Gaylord D.: *See*—
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Smith, Gean D., and W. W. Thompson, to Luminous Ceilings, Inc. Suspended ceilings. 3,359,697, 12-26-67, Cl. 52—506.

Smith, Geoffrey, to Polymark (Holdings) Ltd. Laundry washing machines. 3,352,131, 11-14-67, Cl. 68—58.

Smith, Geoffrey H.: *See*—
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Smith, George, to Shell Oil Co. Per (beta and gamma substituted alkylene) mono- and di-tin compounds and the preparation thereof. 3,332,970, 7-25-67, Cl. 260—429.7.

Smith, George, to Shell Oil Co. Epoxy organo-tin compounds. 3,347,833, 10-17-67, Cl. 260—78.4.

Smith, George C., Jr., to The Procter & Gamble Co. Process for preparing detergent tablets. 3,318,817, 5-9-67, Cl. 252—137.

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Smith, George E., to Tektronic, Inc. Circuit for gating sweep generator directly from input signal. 3,358,159, 12-12-67, Cl. 307—88.5.

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Smith, George H., to Leviton Mfg. Co., Inc. Electrical fixture for panel mounting. 3,297,977, 1-10-67, Cl. 339—126.

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Smith, George H., and J. M. Poliak, to Leviton Mfg. Co., Inc. Push-button type of electrical switch. 3,331,933, 7-18-67, Cl. 200—67.

Smith, George H., and K. Kiyonaga, to Union Carbide Corp. Oxygen lances. 3,337,203, 8-22-67, Cl. 266—34.

Smith, George H., and R. E. Armstrong, Jr., to Union Carbide Corp. Method for refining metals. 3,347,660, 10-17-67, Cl. 75—43.

Smith, George M.: *See*—
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Smith, George R.: *See*—
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Smith, William B. and G. R. 3,337,044.

Smith, George W.: *See*—
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Smith, Lyman W., to Baxter Laboratories, Inc. Method for the treatment of herniation of intervertebral discs. 3,320,-131, 5-16-67, Cl. 167—73.

Smith, Lyman W., J. F. Estes, R. J. Cowles, and H. Bruchmann, to The Haeger Potteries, Inc. Prosthetic parts and methods of making the same. 3,314,420, 4-18-67, Cl. 128—92.

Smith, Lynwood V., to North and Judd Mfg. Co. Break away belt fastener. 3,295,178, 1-3-67, Cl. 24—178.

Smith, Malcolm G.: *See*—
Moschetti, Donald J., Smith, and Ripplinger. 3,335,661.

Smith, Malcolm H., to Olinkraft, Inc. Container. 3,338,459, 8-29-67, Cl. 220—66.

Smith, Malcolm K.: *See*—
Ehrlich, Arthur, Smith, and Patton. 3,345,311.

Smith, Mansel W.: *See*—
Ward, Thomas D., and Smith. 3,329,271.

Smith, Marlin B. Splashproof drinking vessel. 3,360,161, 12-26-67, Cl. 220—90.4.

Smith, Marvin: *See*—
Grosbard, Gregory, and Lazenberry. 3,343,295.

Smith, Marvin L., to Heath Co. Color television receiver apparatus. 3,329,871, 7-4-67, Cl. 317—157.5.

Smith, Max L., to Burnup and Sims, Inc. Oil lubricated hydraulic powered concrete pump. 3,295,452, 1-3-67, Cl. 103—49.

Smith, Melvin H.: *See*—
Miller, Kenneth F., and Smith. 3,324,728.

Smith, Melvin H., and K. F. Miller, to Bourns, Inc. Diaphragm-type high pressure transducer. 3,324,727, 6-13-67, Cl. 73—398.

Smith, Merlin G., and E. Stern, to International Business Machines Corp. Methods of making thru-connections in semiconductor wafers. 3,343,256, 9-26-67, Cl. 29—578.

Smith, Merlyn P.: *See*—
Rink, Harold J., and Smith. 3,307,519.

Smith, Michael A.: *See*—
Needham, Brian J., and Smith. 3,332,739.

Smith, Michael D.: *See*—
Evans, Evan W., and Smith. 3,340,051.

Smith, Michael T.: *See*—
Hardy, Derek J., and Smith. 3,301,343.
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Smith, Millard F. Apparatus for coating tubes. 3,301,736, 1-31-67, Cl. 156—501.

Smith, Millard F. Apparatus for coating objects. 3,311,085, 3-28-67, Cl. 118—59.

Smith, Millard F., and A. V. Anusauckas, said Anusauckas assor. to said Smith. Steerable self-powered floating structures. 3,321,923, 5-30-67, Cl. 61—1.

Smith, Millard F., and A. V. Anusauckas; said Anusauckas, assor. to said Smith. Adjustable fluid mixing devices. 3,334,-657, 8-8-67, Cl. 137—604.

Smith, Morley S., to The Buehler Corp. Jet boat propulsion unit. 3,336,752, 8-22-67, Cl. 60—221.

Smith, Nathan D. High pressure indicator. 3,345,876, 10-10-67, Cl. 73—388.

Smith & Nephew Plastics Ltd.: *See*—
Duns, John. 3,323,282.

Smith, Nervin P. Combined tee holder and ball marker. 3,298,579, 1-17-67, Cl. 224—5.

Smith, Newland F.: *See*—
Willcox, Frederick P., and Smith. 3,314,051.

Smith, Norman E., to Crossly Window Corp. Panel for inclusion in a unit to be installed in a building opening. 3,308,593, 3-14-67, Cl. 52—456.

Smith, Norman E., to Crossly Window Corp. Lock mechanism for a sliding panel. 3,353,855, 11-21-67, Cl. 292—65.

Smith, Norman F., and E. T. Stocker, to Western Electric Co. Inc. Coil winding apparatus. 3,303,315, 2-7-67, Cl. 219—79.

Smith, Norman N. P., to The Marconi Co. Ltd. Radio navigation aids. 3,298,022, 1-10-67, Cl. 343—6.

Smith, Norman R.: *See*—
Coward, Todd L., and Smith. 3,309,319.

Smith, Norman W. W., to North American Philips Co., Inc. Mirror-type electron gun. 3,327,148, 6-20-67, Cl. 313—82.

Smith, Noyes D., Jr.: *See*—
Jorda, Robert M., Robichaux, and Smith. 3,355,315.

Smith, Noyes D., Jr., and W. L. Roever, to Shell Oil Co. Storing and recalling signals. 3,320,596, 5-16-67, Cl. 340—174.

Smith, Noyes D., Jr., and W. L. Roever, to Shell Oil Co. Storing and recalling signals. 3,357,001, 12-5-67, Cl. 340—174.

Smith, Orbert S.: *See*—
Aksu, Akin, Beeck, Brown, Lewis, Smith, and Strich. 3,329,926.

Smith, Oscar C. Apparatus and methods for aerating a body of water. 3,320,928, 5-23-67, Cl. 119—3.

Smith, Oscar C. Live bait bucket adapter. 3,339,305, 9-5-67, Cl. 43—56.

Smith, Oscar H.: *See*—
Carson, William D., Paul, Wilkins, and Smith. 3,314,158.

Smith, Owen E., to The Goodyear Tire & Rubber Co. Synthetic rubber compositions and pneumatic tire treads prepared therefrom. 3,305,516, 2-21-67, Cl. 260—33.6.

Smith, Paul. Device for making double gummed tabs from single coated cellophane tape. 3,320,834, 5-23-67, Cl. 81—3.

Smith, Paul C., and R. E. Hyde, to Strolee of California, Inc. Convertible stroller apparatus. 3,334,909, 8-8-67, Cl. 280—31.

Smith, Paul C., and R. E. Hyde, to Strolee of California, Inc. Infant's car seat. 3,338,631, 8-29-67, Cl. 297—256.

Smith, Paul F.: *See*—
Perry, Kenneth E., and Smith. 3,349,406.

Smith, Percy L.: *See*—
McGary, Charles W., Jr., Smith, and Comstock. 3,304,-347.

Smith, Peter, to Dynamics Corp. of America. Uninterrupted power supply. 3,345,517, 10-3-67, Cl. 290—4.

Smith, Peter H.: *See*—
Hardy, Donald, and Smith. 3,333,476.

Smith, Peter H., to J. Lyons & Co., Ltd. Electronic ovens. 3,300,615, 1-24-67, Cl. 219—10.55.

Smith, Peter H., to J. Lyons & Co., Ltd. Tray. 3,326,119, 6-20-67, Cl. 99—428.

Smith, Peter H., to J. Lyons & Co., Ltd. Vending apparatus. 3,335,656, 8-15-67, Cl. 99—357.

Smith, Philip A., to B. F. Goodrich Co. Friction pad support means for caliper-type disc brakes. 3,357,524, 12-12-67, Cl. 188—73.

Smith, Philip N., and W. E. Wharton, to Deering Milliken Research Corp. Warper stop motion. 3,330,016, 7-11-67, Cl. 28—51.

Smith, Philip N., and W. E. Wharton, to Deering Milliken Research Corp. Scanning type monitoring and control apparatus. 3,348,222, 10-17-67, Cl. 340—413.

Smith, Pleasant E., ¼ each to J. A. Ozbourn, T. A. Miller, and W. G. Lecocq. Cable splice spider. 3,317,658, 5-2-67, Cl. 174—138.

Smith Precision Products Co.: *See*—
Smith, Lawrence W. 3,347,286.

Smith, Ralph W., W. A. H. Huffman, and J. Preston, to Monsanto Co. Polymers from diaminobenzanilides. 3,354,-125, 11-21-67, Cl. 260—78.

Smith, Randall E., to Republic Fastener Products Corp. Apparatus for forming a hog ring. 3,333,411, 8-1-67, Cl. 59—71.

Smith, Raymond A.: *See*—
Bruce, John A., Smith, and Whitesell. 3,325,966.

Smith, Raymond A. Sportsman's blind. 3,323,530, 6-6-67, Cl. 135—1.

Smith, Raymond E., Jr. Bending machine. 3,350,912, 11-7-67, Cl. 72—310.

Smith, Raymond J. D., to American Cyanamid Co. Information storage using plural coded inks. 3,340,984, 9-12-67, Cl. 197—1.

Smith, Raymond M., Jr. Stylet for insertion of endotracheal catheter. 3,314,431, 4-18-67, Cl. 128—351.

Smith, Raymond M., Jr. Guide needle for flexible catheters. 3,359,978, 12-26-67, Cl. 128—214.4.

Smith, Raymond P. Expanding trailer with pivotable ridge pole and furniture. 3,338,003, 8-29-67, Cl. 52—29.

Smith, Raymond T., and C. L. Parish, to Datamatics International, Inc. Data card translating device. 3,358,124, 12-12-67, Cl. 235—61.11.

Smith, Reading B.: *See*—
Dresser, Thorpe, and Smith. 3,318,747.

Smith, Rex L.: *See*—
Burkardt, Lohr A., Finnegan, and Smith. 3,332,353.

Smith, Rex L., and J. C. Daley, to United States of America, Navy. Reserve activated voltaic battery having a gas generator for shock free operation. 3,298,868, 1-17-67, Cl. 136—90.

Smith, Richard A., and F. Wojnar, to H. J. Heinz Co. Method for continuous cooking and sterilization of liquids and suspensions. 3,297,448, 1-10-67, Cl. 99—211.

Smith, Richard D.: *See*—
Gilliam, Clarence W., Smith, Wildridge, and Szypulski. 3,315,397.

Smith, Richard E., to Sylvania Electric Products Inc. Ballasted incandescent projection lamp. 3,330,984, 7-11-67, Cl. 313—115.

Smith, Richard E., to Sylvania Electric Products Inc. Projection lamp including a blackening control device. 3,348,094, 10-17-67, Cl. 313—71.

Smith, Richard E., and R. L. Boston, to General Aniline & Film Corp. Thermal developing apparatus. 3,301,157, 1-31-67, Cl. 95—89.

Smith, Richard H., and J. R. Shoemaker, to Goodyear Aerospace Corp. Vehicle guidance apparatus utilizing wave generated range only information. 3,299,425, 1-17-67, Cl. 343—7.

Smith, Richard J., to McGill Mfg. Co., Inc. Single row spherical bearing. 3,306,687, 2-28-67, Cl. 308—213.

Smith, Richard L. Combined shaker top and pour spout closure for containers of finely divided material. 3,342,380, 9-19-67, Cl. 222—189.

Smith, Richard L., and R. K. Johnston, to Eastman Kodak Co. Coating to prevent heat sealing of polyolefin surfaces. 3,300,327, 1-24-67, Cl. 117—44.

Smith, Richard N.: *See*—
Chen, William K.-W., and Smith. 3,342,719.
Rogers, Francis W., Lee, and Smith. 3,340,177.

Smith, Richard N. Closure for automotive fuel tanks and the like. 3,334,779, 8-8-67, Cl. 220—86.

Smith, Richard S., and V. P. Spelser, to Seek-A-Leak, Inc. Leak testing apparatus. 3,342,062, 9-19-67, Cl. 73—49.2.

Smith, Richard T., to Western Electric Co., Inc. Article sorting apparatus. 3,351,197, 11-7-67, Cl. 209—74.

Smith, Robert A., to U.S. Atomic Energy Commission under the provisions of 42 U.S.C. 2182. Control device for nuclear reactors. 3,344,031, 9-26-67, Cl. 176—36.

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Blakey, Walter W., and Smith. 3,341,957.

Smith, Robert B., and W. E. Garwood, to Mobil Oil Corp. Porous synthetic ion exchange catalysts and preparation thereof. 3,352,800, 11-14-67, Cl. 260—2.2.

Smith, Robert C. Ornamental window shade. 3,308,872, 3-14-67, Cl. 160—120.

Smith, Robert D., ½ to D. Heaton. Signal gating circuit and vehicle starting control circuit. 3,327,138, 6-20-67, Cl. 307—88.5.

Smith, Robert E., R. L. Kosrow, and J. G. Attwood, to Union Special Machine Co. Work piece inverter conveyor. 3,298,-498, 1-17-67, Cl. 198—33.

Smith, Robert E., R. L. Kosrow, and J. G. Attwood, to Union Special Machine Co. Ply separator conveyor. 3,353,821, 11-21-67, Cl. 271—16.

Smith, Robert F., Jr.: *See*—
Owen, William S., Jr., and Smith. 3,315,859.

Smith, Robert G., to General Aniline & Film Corp. Slide projector and slide carrier therefor. 3,324,765, 6-13-67, Cl. 88—27.

Smith, Robert G., to Phillips Petroleum Co. Container. 3,326,-425, 6-20-67, Cl. 222—478.

Smith, Robert H., and J. J. Lenosky, to Chrysler Corp. Low friction seat belt release. 3,313,573, 4-11-67, Cl. 297—388.

Smith, Robert J.: *See*—
Winkley, Jerry H., and Smith. 3,313,531.

Smith, Robert J., to ACF Industries, Inc. Carburetor. 3,317,196, 5-2-67, Cl. 261—23.

Smith, Robert J., to United States of America, Air Force. Force adaptive dynamic face seal. 3,336,034, 8-15-67, Cl. 277—88.

Smith, Robert L., to Chemetron Corp. Receptacle filling machines. 3,349,973, 10-31-67, Cl. 222—380.

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Smith, Robert S., to Seymour Smith and Son, Inc. Shears. 3,327,390, 6-27-67, Cl. 30—248.

Smith, Robert T., Jr., to Honeywell Inc. Recorder. 3,303,-509, 2-7-67, Cl. 346—34.

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Smith, Robert V., to Emery Industries, Inc. Polyamide-formaldehyde condensate. 3,344,118, 9-26-67, Cl. 260—51.

Smith, Robert V., to Phillips Petroleum Co. High-pressure steam drive oil production process. 3,353,598, 11-21-67, Cl. 166—11.

Smith, Robert W.: *See*—
Riley, John E., and Smith. 3,318,107.

Smith, Robert W., to United States Steel Corp. Method of adding solids and oxygen to an open hearth furnace. 3,304,173, 2-14-67, Cl. 75—52.

Smith, Robert W., to Mid-States Steel & Wire Co. Tying machine. 3,330,205, 7-11-67, Cl. 100—4.

Smith, Robert W., to General Motors Corp. Visual indicating spark plug with an integral gas lamp. 3,348,087, 10-17-67, Cl. 313—1.

Smith, Robin: *See*—
Phillipson, Alan, Spiller, Smith, and Cheesman. 3,345,-075.
Phillipson, Alan, Spiller, Smith, and Cheesman. 3,359,-704.

Smith, Rockwell H.: *See*—
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Smith, Roger, Jr., to Bryon Jackson Inc. Traveling block. 3,353,794, 11-21-67, Cl. 254—192.

Smith, Roland W.: *See*—
Kudlicki, Richard C., and Smith. 3,303,764.

Smith, Ronald, to G. K. N. Screws & Fasteners Ltd. Self-tapping screws. 3,357,295, 12-12-67, Cl. 85—41.

Smith, Ronald H., to United States of America, Navy. Sawtooth sweep generator with negligible recovery time. 3,315,101, 4-18-67, Cl. 307—88.5.

Smith, Ross C.: *See*—
Egan, Gerald H., Smith, and Thompson. 3,308,512.

Smith, Roy E.: *See*—
Wright, John G., and Smith. 3,302,945.

Smith, Roy E., to The Auto-Soler Co. Reel structure mounting means. 3,295,786, 1-3-67, Cl. 242—129.5.

Smith, Roy E., to Owens-Corning Fiberglas Corp. Apparatus for forming and collecting filaments. 3,334,980, 8-8-67, Cl. 65—11.

Smith, Roy E., and W. O. Pearman, to Owens-Corning Fiberglas Corp. Apparatus for driving filamentary material collectors or bobbins. 3,302,384, 2-7-67, Cl. 57—130.

Smith, Roy J., and J. E. Togni. Portable seat. 3,340,828, 9-12-67, Cl. 108—135.

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Newman, Ernest G., Smith, and Stokes. 3,341,795.

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Barlow, Alan. 3,316,452.
Barlow, Alan. 3,316,456.
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Bishop, Roger I., Kendall, and Palmer. 3,309,923.
Buffery, Victor C., and Jefferys. 3,315,221.
Du Feu, Alan N. 3,335,605.
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Hopkin, Peter R., and Halliday. 3,316,530.
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Kendall, Eric R., and Newport. 3,359,793.
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Smith, Samuel: *See*—
Sherman, Patsy O., and Smith. 3,341,497.

Smith, Samuel, and P. O. Sherman, to Minnesota Mining and Mfg. Co. Compositions and treated articles thereof. 3,329,-661, 7-4-67, Cl. 260—79.3.

Smith, Samuel, and P. O. Sherman, to Minnesota Mining and Mfg. Co. Vinyl polymers containing perfluoro carbon groups and acyl halide groups. 3,330,812, 7-11-67, Cl. 260—79.3.

Smith, Samuel, and P. O. Sherman, to Minnesota Mining and Mfg. Co. Copolymers of perfluoro acrylates and hydroxy alkyl acrylates. 3,356,628, 12-5-67, Cl. 260—29.6.

Smith, Samuel C., to Fan-Air Systems, Inc. Low temperature, high humidity lumber drying kiln. 3,337,967, 8-29-67, Cl. 34—46.

Smith, Samuel G., Jr.: *See*—
Sellers, Ralph F., Smith, and Burhans. 3,332,908.

Smith, Samuel H., to A-1 Bit & Tool Co. Swivel for supporting drill string in submerged casing head. 3,301,324, 1-31-67, Cl. 166—.5.

Smith, Samuel H. Pushbutton control with retaining and disabling means. 3,358,090, 12–12–67, Cl. 200—5.

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Smith, Robert S. 3,327,390.

Smith, Sherman S.: *See*—
Richards, Chester L., Jr., and Smith. 3,355,209.

Smith, Sidney E.: *See*—
Shneider, Harold M., and Smith. 3,334,409.

Smith, Sidney R., Jr., to General Electric Co. Sectionalizer for open cutouts. 3,321,721, 5–23–67, Cl. 335—32.

Smith, Sidney V.: *See*—
Ferm, Richard L., Smith, and Moran. 3,318,529.
Ferm, Richard L., Smith, and Moran. 3,330,070.
Nunn, Roland C., Moran, Smith, and Tobriner. 3,328,891.

Smith, Stanley F., and P. A. Taylor, to Rolls-Royce Ltd. Gas turbine engine combustion equipment. 3,316,714, 5–2–67, Cl. 60—39.65.

Smith, Stanley J. Hydraulic brake safety device. 3,325,996, 6–20–67, Cl. 60—54.5.

Smith, Stanley J., to Simmonds Precision Products, Inc. Jet stream indicator. 3,350,943, 11–7–67, Cl. 73—362.

Smith, Stephen W., to Sperry Rand Corp. Document sorting. 3,347,367, 10–17–67, Cl. 209—74.

Smith & Stone Ltd.: *See*—
Duffield, Joseph F. 3,348,221.
Duffield, Joseph F., and Godzlemba-Dambski. 3,305,650.
Kindersley, Charles R. D., and Duffield. 3,333,233.
Kindersley, Charles R. D., and Duffield. 3,333,234.

Smith, Stuart O., to National Copper Development Co. Drop leaf deck saw. 3,316,789, 5–2–67, Cl. 83—453.

Smith, Stuyvesant C. Shock absorber for vehicles. 3,326,544, 6–20–67, Cl. 267—20.

Smith, Sydney S., to Smith Development Co. Lease automatic custody transfer unit. 3,295,371, 1–3–67, Cl. 73—230.

Smith, Sydney W.: *See*—
Owen, Bernard D., Smith, and Swan. 3,351,333.

Smith, Sylvester W. Self-lubricating pump. 3,306,225, 2–28–67, Cl. 103—126.

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Drain, David J., Howes, and Williams. 3,349,135.

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Bradshaw, Franklin C., and Smith. 3,320,508.

Smith, Terry P., to Corning Glass Works. Packaged electronic device. 3,320,353, 5–16–67, Cl. 174—52.

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Barker, Horace H., Jr., Long, Rosello, Soldat, and Smith. 3,317,074.

Smith, Thomas A.: *See*—
Mech, Paul J., Groncki, and Smith. 3,336,139.

Smith, Thomas A., ½ to F. D. Massimini. Live bait container device. 3,315,403, 4–25–67, Cl. 43—55.

Smith, Thomas E.: *See*—
Denlinger, John L., and Smith. 3,318,137.

Smith, Thomas R., to The Maytag Co. Laundry apparatus. 3,301,024, 1–31–67, Cl. 68—12.

Smith, Thomas R., to The Maytag Co. Vacuum breaker. 3,307,571, 3–7–67, Cl. 137—218.

Smith, Thomas R., to The Maytag Co. Agitator for washing machine. 3,314,253, 4–18–67, Cl. 68—18.

Smith, Thomas R., to The Maytag Co. Speed control system for laundry appliance. 3,324,691, 6–13–67, Cl. 68—24.

Smith, Thomas R., to The Maytag Co. Level sensing means for electrically conductive materials. 3,339,578, 9–5–67, Cl. 137—392.

Smith, Tom, & Co., Ltd.: *See*—
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Smith, Tom R., to American Air Filter Co., Inc. Secondary system for dust collector. 3,344,589, 10–3–67, Cl. 55—294.

Smith, Tom R., and R. J. Boylan, to American Air Filter Co., Inc. Unit filter assembly. 3,344,590, 10–3–67, Cl. 55—484.

Smith, Traver J.: ½ to G. I. Magnuson, and ½ to G. I. and Robert Magnuson, and L. J. Fox, trustees of the estate of Roy M. Magnuson, deceased. Color grading apparatus. 3,295,406, 1–3–67, Cl. 88—14.

Smith, Valor C., Jr., and J. O. Watson, to L. J. Chu. Broad band antenna. 3,324,476, 6–6–67, Cl. 343—830.

Smith, Verity C., to Barnstead Still & Sterilizer Co. Water distillation apparatus with vapor trap. 3,298,929, 1–17–67, Cl. 202—190.

Smith, Verity C., to Barnstead Still and Sterilizer Co. Demineralization of water. 3,355,018, 11–28–67, Cl. 210—94.

Smith, Vernon C., E. H. Hinton, Jr., and D. A. Davis, to Burlington Industries, Inc. Breathable and waterproof coated fabric and process of making same. 3,326,713, 6–20–67, Cl. 117—76.

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Turk, James R. 3,333,544.
Turk, James R. 3,350,587.
Turk, James R. 3,353,068.

Smith, Ving. Prefabricated building. 3,347,000, 10–17–67, Cl. 52—90.

Smith, Virgil O.: *See*—
Kuhns, Charles C., and Smith. 3,320,537.

Smith, Walter A.: *See*—
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Smith, Walter J.: *See*—
Kasza, Carl J., and Smith. 3,300,347.

Smith, Walter J., and R. B. Parker, to Johnson Service Co. Humidity sensing element. 3,301,057, 1–31–67, Cl. 73—337.

Smith, Walter K., Jr., and C. T. Phillips. Building structure having facing slabs and removable securing means therefor. 3,350,830, 11–7–67, Cl. 52—509.

Smith, Walter S.: *See*—
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Smith, Warner B., and L. R. Keyser, to Price Bros. Co., Inc. Means for testing joints for large diameter pipe. 3,338,088, 8–29–67, Cl. 73—46.

Smith, Warren G. Football practice device. 3,304,089, 2–14–67, Cl. 273—55.

Smith, Warren M.: *See*—
Gladrow, Elroy M., and Smith. 3,326,818.
Gladrow, Elroy M., and Smith. 3,346,512.

Smith, Watt V., and R. L. Ward, to United States of America, Navy. Quick acting submarine shaft seal. 3,337,222, 8–22–67, Cl. 277—34.3.

Smith, Wilbur C.: *See*—
Rayner, Raymond E., and Smith. 3,299,655.

Smith, Wilburn S., Jr.: *See*—
Selman, Stanley, and Smith. 3,342,875.

Smith, Willard A., and R. L. Williamson, to AMP Inc. Electrical connector with dielectric housing. 3,319,212, 5–9–67, Cl. 339—64.

Smith, Willard O., K. L. Weaver, and A. C. Harmsen, to Gilman Paper Co. Gusseted multi-wall waterproof paper bag. 3,346,173, 10–10–67, Cl. 229—55.

Smith, Willard W.: *See*—
Burns, Hugh C., Smith, Coolidge, and Dean. 3,325,021.

Smith, William: *See*—
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Smith, William B. and G. R., to Anaconda Aluminum Co. Coiled sheet package. 3,337,044, 8–22–67, Cl. 206—65.

Smith, William C.: *See*—
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Smith, William C. Briquets made of char and method for the production thereof. 3,336,122, 8–15–67, Cl. 44—17.

Smith, William C., and R. W. Carlson. An ignition distributor having current-conductive segments in two groups of opposite polarity. 3,342,955, 9–19–67, Cl. 200—19.

Smith, William D., to Go, Inc. Bore hole tool orienting apparatus and systems. 3,307,642, 3–7–67, Cl. 175—4.51.

Smith, William D., to Go, Inc. Bore hole tool orienting apparatus and systems. 3,307,648, 3–7–67, Cl. 175—4.51.

Smith, William D., to Varian Associates. Terminal pin mounting arrangement for cylindrical grids in electron tubes. 3,319,108, 5–9–67, Cl. 313—331.

Smith, William E., and H. Volk, to The Dow Chemical Co. Method for producing polymers of vinyl aromatic sulfonates characterized useful as flocculants. 3,340,238, 9–5–67, Cl. 260—79.3.

Smith, William F. Winding and feeding device. 3,302,898, 2–7–67, Cl. 242—11.

Smith, William F., to Jones & Laughlin Steel Corp. Molten metal sampler. 3,354,723, 11–28–67, Cl. 73—425.6.

Smith, William F., and E. R. Mays. Machine for abrading, polishing and cleaning. 3,327,431, 6–27–67, Cl. 51—163.

Smith, William F. and L. T., to The Dow Chemical Co. Method for preparing aqueous dispersions of high molecular weight olefin polymers. 3,356,629, 12–5–67, Cl. 260—29.6.

Smith, William G., 40% to Robert P. Berryman. Quick-release safety seat belt. 3,313,572, 4–11–67, Cl. 297—388.

Smith, William L., to United States of America, Atomic Energy Commission. Non-linear end-of-line clipper circuit for pulsers. 3,322,975, 5–30–67, Cl. 307—93.

Smith, William L. Lid retainer. 3,358,874, 12–19–67, Cl. 220—55.7.

Smith, William M., to Escambia Chemical Corp. Plastic surface covering material containing metallized plastic particles. 3,345,322, 10–3–67, Cl. 260—41.

Smith, William M., and H. F. Beers, Jr., to The Warner & Swasey Co. Shearproof metal punch. 3,348,443, 10–24–67, Cl. 83—686.

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Smith, William N. Combination hand case. 3,319,744, 5–16–67, Cl. 190—52.

Smith, William P., to Container Corp. of America. External ear carton. 3,357,629, 12–12–67, Cl. 229—37.

Smith, William P., R. W. Dietrich, and D. R. Stephens, to Container Corp. of America. Carton for lockset. 3,326,362, 6–20–67, Cl. 206—46.

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Smith, William T., and H. I. Bull, Jr., to Westinghouse Electric Corp. Electrical connector. 3,319,211, 5–9–67, Cl. 339—31.

Smith, William V., to International Business Machines Corp. Beam deflecting lasers. 3,339,151, 8–29–67, Cl. 331—94.5.

Smith, William W., to United Shoe Machinery Corp. Fastening devices. 3,309,747, 3–21–67, Cl. 24—208.

Smith, William W., to The Electric Storage Battery Co. Compact element for electric storage battery cells and a method for preparing it. 3,314,820, 4–18–67, Cl. 136—6.

Smith, Willis R., to General Signal Corp. Car retarder control system. 3,358,139, 12–12–67, Cl. 246—169.

Smith, Willis R., C. S. Wilcox, and J. A. Snell, to General Signal Corp. Vehicle control system. 3,358,613, 12–19–67, Cl. 105—61.

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Smithberg, Floyd E., and M. C. Supitilov, to Du Kane Corp. Magnetic record belt with means for aligning belt. 3,306,989, 2–28–67, Cl. 179—100.2.

Smithberg, Floyd E., and E. H. Anderson, to Dukane Corp. Coin controlled machine for operating on tape. 3,338,367, 8–29–67, Cl. 197—6.7.

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Smith-Johannsen, Robert, to S-J Chemical Co. Silicone rubber compositions with heat pre-treated fillers and silicate curing agents. 3,325,440, 6–13–67, Cl. 260—37.

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Smithson, George R.: *See*—
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Smithson, Helen L. Button pins. 3,305,905, 2–28–67, Cl. 24—161.

Smith-Vaniz, William R., to Trak Electronics Co., Inc. Hybrid circuit for radio frequency signal processing apparatus. 3,317,849, 5–2–67, Cl. 330—21.

Smith-Vaniz, William R., and H. R. Sherman, to Whitek, Inc. Magnetic tape information storage and retrieval system. 3,357,002, 12–5–67, Cl. 340—174.1.

Smitka, Wolfgang, to International Standard Electric Corp. Utilizing segmented dipole elements to decrease interaction between activated and deactivated antennas. 3,339,205, 8–29–67, Cl. 343—701.

Smitley, Wayne C., to General Electric Co. Cooking oven having combination light shield and panel holder. 3,318,930, 4–11–67, Cl. 240—5.

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Smitzer, Louis A., A. I. Yohanam, and D. D. Call, to Bell & Howell Co. Microfilm reader. 3,354,776, 11–28–67, Cl. 88—24.

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Smolka, Thomas G., and G. Schweizer, to Wiener Metallwarenfabrik Smolka & Co. Safety binding. 3,333,859, 8–1–67, Cl. 280—11.35.

Smolka, Thomas G., and J. Zelinka, to Wiener Metallwaren und Schmallenfabrik Schar-Smolka. Spring locking especially for ski bindings. 3,337,225, 8–22–67, Cl. 280—11.35.

Smolka, Thomas G., and G. Schweizer, to Wiener Metallwarenfabrik Smolka & Co. Heel-safety holds for ski bindings. 3,351,354, 11–7–67, Cl. 280—11.35.

Smoll, Lee V. Combination structure for automobiles. 3,317,238, 5–2–67, Cl. 296—69.

Smoll, Richard M. Fluid pressure clutch means assembly. 3,353,638, 11–21–67, Cl. 192—3.5.

Smolnik, Felix, to Bonova Etablissement. Detachable anti-slipping device for shoes. 3,359,659, 12–26–67, Cl. 36—7.6.

Smoot, George F., S. E. Rickly, and E. G. Barron, to United States of America, Interior. Flood hydrograph and raingage recorder. 3,309,710, 3–14–67, Cl. 346—49.

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Smyly, James P., to American Lava Corp. Ceramic dielectrics. 3,359,133, 12–19–67, Cl. 117—227.

Smyrnos, Gus J., to Automatic Electric Laboratories, Inc. Crystal oven heating and control system. 3,300,623, 1–24–67, Cl. 219—501.

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Smythe, William J., to Technicon Corp. Gas and liquid separator for gas analysis. 3,342,019, 9–19–67, Cl. 55—53.

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Snyder, Ernest L., to Design Enterprise, Inc. Snowshoe and tread therefor. 3,299,541, 1–24–67, Cl. 36—4.5.
Snyder, Fred P.: *See*—
Spaulding, Roy H., and Snyder. 3,357,589.
Snyder, Gerald J. Tank construction. 3,343,703, 9–26–67, Cl. 220—1.
Snyder, Gerald T. Container with markers for band control. 3,340,621, 9–12–67, Cl. 35—29.
Snyder, Gilbert R., to United States of America, Army. Aqueous electrolyte emulsion. 3,346,420, 10–10–67, Cl. 136—90.
Snyder, Harvey: *See*—
Alexeff, Alexander V., and Snyder. 3,343,737.
Snyder, Herbert C.: *See*—
Poole, James P., Snyder, and Ryder. 3,314,772.
Snyder, Howard E., to The Boeing Co. Method of applying a resin laminar substrate to a surface. 3,306,767, 2–28–67, Cl. 117—102.
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Snyder, Jack A., to E. I. du Pont de Nemours and Co. 4-phenylbicyclo[2.2.2]octane-1-amines and salts thereof. 3,308,160, 3–7–67, Cl. 260—570.5.
Snyder, Jack A., to E. I. du Pont de Nemours and Co. Process for the preparation of N,O-dimethylhydroxylamine N-sulfonic acid. 3,336,371, 8–15–67, Cl. 260—500.
Snyder, James H., to Honeywell Inc. Magnetic oscillator apparatus having means for minimizing nonlinearities in the square wave output. 3,340,480, 9–5–67, Cl. 331—113.
Snyder, James M., to E. I. du Pont de Nemours and Co. Process for extraction of metals. 3,347,662, 10–17–67, Cl. 75—106.
Snyder, John A., to The Babcock & Wilcox Co. Vacuum degasser. 3,337,201, 8–22–67, Cl. 266—13.
Snyder, John C., to Hercules Inc. Manufacture of *p*-nitrosoaniline. 3,338,966, 8–29–67, Cl. 260—581.
Snyder, John G., to Atlantic Research Corp. Sequentially operated bidirectional rocket motors for thrust direction modification. 3,358,454, 12–19–67, Cl. 60—229.
Snyder, Joseph Q., R. D. Swisher, W. E. Weesner, and L. T. Wolford, to Monsanto Co. Process of preparing alkaryl sulfonates by dimerizing olefins with a metal oxide promoted silica-alumina catalyst. 3,332,989, 7–25–67, Cl. 260—505.
Snyder, Kenneth E.: *See*—
Clapp, Samuel A., and Snyder. 3,318,174.
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Trexler, Philip C. 3,339,992.
Trexler, Philip C. 3,348,890.
Trexler, Philip C. 3,355,230.
Snyder, Nicholas H.: *See*—
Smoke, Edward J., and Snyder. 3,360,203.
Snyder, Orval, to Richmond Baking Co. Cookie aligning apparatus. 3,295,657, 1–3–67, Cl. 198—30.
Snyder, Orville E.: *See*—
Moore, Donald L., and Snyder. 3,317,242.
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Snyder Paper Corp.: *See*—
Bigsby, Paul V., Jr., and Stilwell. 3,298,263.
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Snyder, Paul W., Jr.: *See*—
Kondis, Edward F., Smith, and Snyder. 3,318,798.
Snyder, Peter J. Universal coupling system and the like. 3,339,379, 9–5–67, Cl. 64—7.
Snyder, Richard C., and M. Stark, to Pullman Inc. Adjustable restraining means. 3,353,506, 11–21–67, Cl. 105—369.
Snyder, Richard L., to Hughes Aircraft Co. Magnetic wire spiral shift register. 3,299,413, 1–17–67, Cl. 340—174.
Snyder, Richard L., to Hughes Aircraft Co. Analogue memory system. 3,334,343, 8–1–67, Cl. 340—347.
Snyder, Richard L., to Hughes Aircraft Co. Collapsing domain magnetic memory. 3,351,922, 11–7–67, Cl. 340—174.
Snyder, Robert E., and J. C. Suatoni, to Gulf Research & Development Co. Process for purifying a normal alpha olefin mixture of its vinylidene content. 3,306,946, 2–28–67, Cl. 260—677.
Snyder, Robert P., to The Dow Chemical Co. Vacuum-forming mold. 3,353,219, 11–21–67, Cl. 18—35.
Snyder, Robert P., to The Dow Chemical Co. Method of filling enclosures with low density particulated material. 3,358,059, 12–12–67, Cl. 264—51.
Snyder, Robert W., to Armstrong Cork Co. Method of orienting chips in the manufacture of floor and wall covering. 3,323,935, 6–6–67, Cl. 117—20.
Snyder, Sargent P.: *See*—
Catallo, Frank, and Snyder. 3,337,107.
Snyder, Stephen L.: *See*—
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Snyder, Walter C., and G. H. Morgan, to The Dow Chemical Co. Trace emulsifier latices consisting of an interpolymer of an alpha-beta ethylenically unsaturated carboxylic acid, an alkyl acrylate and either styrene or acrylonitrile. 3,326,836, 6–20–67, Cl. 260—29.6.
Snyder, William J., Jr.: *See*—
Gilbert, Harry E., Jr., Snyder, and Zundel. 3,331,796.
Snyder, William T., to Nalco Chemical Co. Method of inhibiting erosion on mold surfaces. 3,357,481, 12–12–67, Cl. 164—72.
Snyder, Wilma E.: *See*—
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Soan, Brian S., and R. A. Waller, to Kins Developments Ltd. Gas holder. 3,355,271, 11–28–67, Cl. 48—174.
Sob, Frantisek, and F. Weidenhofer, to Elitex Sdruzeni Podniku Textilniho Strojirenstvi. Machine for the production of a continuous staple fiber product from bundles of continuous synthetic filaments. 3,317,963, 5–9–67, Cl. 19—.56.
Sobeck, Harold R., to Rockwell Standard Corp. Combination oil bath and dry air filter for internal combustion engine. 3,298,149, 1–17–67, Cl. 55—252.
Sobeck, Harold R., to Rockwell-Standard Corp. Dust and like particle separator. 3,355,864, 12–5–67, Cl. 55—443.
Sobek, Alfred S.: *See*—
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Sobel, David, 50% to Bilker and Moyerman. Pneumatic squeeze toy. 3,353,823, 11–21–67, Cl. 272—8.
Sobel, David D. Garment stretching and shaping form. 3,356,271, 12–5–67, Cl. 223—66.
Sobel, Ilyitch J.: *See*—
McCarthy, Robert J., and Sobel. 3,321,690.
Sobel, Ilyitch J., to Sonotone Corp. Coulometer controlled battery charging systems. 3,329,882, 7–4–67, Cl. 320—39.
Sobel, Leonard H. and M. Motor vehicle push preventing bumper guard. 3,308,903, 3–14–67, Cl. 180—83.
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Sobel, Leonard H. and M. 3,308,903.
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Sobel, Sydney M., to Ontario Store Fixture Co., Ltd. Modular knockdown shelving construction. 3,346,124, 10–10–67, Cl. 211—148.
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Sobocinski, Eugene C., and W. F. Symes, to Monsanto Co. Process improvements for preparing cyanuric acid. 3,354,158, 11–21–67, Cl. 260—248.
Sobocinski, Eugene C., and W. F. Symes, to Monsanto Co. Process improvement for preparing cyanuric acid. 3,357,979, 12–12–67, Cl. 260—248.
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Soboczenski, Edward J., to E. I. du Pont de Nemours and Co. 3-carbo hydrocarbonoxy amino crotonamides and process for the preparation of uracils therefrom. 3,321,464, 5–23–67, Cl. 260—239.
Soboczenski, Edward J., to E. I. du Pont de Nemours and Co. 3,5-disubstituted uracils. 3,352,863, 11–14–67, Cl. 260—260.
Soboczenski, Edward J., to E. I. du Pont de Nemours and Co. 3-substituted-5,6-alkyleneuracils 3,360,512, 12–26–67, Cl. 260—260.
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Sobol, Erwin J.: *See*—
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Sobol, Woldimar, and H. L. Higgins, to Westinghouse Brake & Signal Co. Slack adjuster. 3,338,356, 8-29-67, Cl. 188—203.
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Sobolev, Igor, to Shell Oil Co. Cationic ester production. 3,342,840, 9-19-67, Cl. 260—404.
Sobolewski, Edward A. Plastic shotgun shell. 3,359,903, 12-26-67, Cl. 102—43.
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Sochting, Herbert, and E. Vock, to Hoerbiger Ventilwerke Aktiengesellschaft. Device for the automatic draining of liquids from compressed-gas systems. 3,348,564, 10-24-67, Cl. 137—193.
Sociedad Civil De Estudio Investigaciones Del Desarrollo Y Progreso Del Automotor Y Mandatos B.M.B.: *See*—
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Societa Applicazioni Gomma Antivibranti S.A.G.A.. S.p.A.: *See*—
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Bernardi, Luigi, and De Castiglione. 3,300,469.
Camerino, Bruno, Patelli, and Sciaky. 3,314,945.
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Societa Italiana Prodotti Schering: *See*—
Galimberti, Paolo, Gerosa, Melandri, and Buttini. 3,344,168.
Societa Italiana Telecommunicazioni Siemens S.p.A.: *See*—
Pistilli, Angelo, and Susin. 3,350,664.
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Societa Nazionale Industria Applicazioni Viscosa, S.p.A., SNIA: *See*—
Palvarini, Attilio, Horak, and Milizia. 3,352,945.
Siclari, Francesco, Bellano, Ciceri, D'Alo', Perazzoni, and Giacobone. 3,345,445.
Societa Octel: *See*—
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Societe a Responsabilite Limitee dite: Botalam: *See*—
Missioux, Jean L. 3,332,597.
Societe a Responsabilite Limitee dite Sonal: *See*—
Albaut, Gaston. 3,333,543.
Societe a Responsabilite Limitee Doittau Produits Metallurgie: *See*—
Nouveau, Henry. 3,344,838.
Societe a Responsabilite Limitee: Recherches Etudes Production R.E.P.: *See*—
Boulet, Georges. 3,332,356.
Lucien, René. 3,336,948.
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Societe a Responsabilite Limitee: Societe Lamy d'Etudes et de Recherches "Soler": *See*—
Chaveneaud, Roger M. 3,351,727.
Societe Alcatel: *See*—
Sauve, Charles, and David. 3,334,213.
Societe Alsacienne de Constructions Mecaniques: *See*—
Halleux, Hubert. 3,327,464.
Societe Anglo-Belge Vulcain S.A.: *See*—
Challender, Ronald S. 3,321,372.
Gratton, Charles P., and Russell. 3,341,426.
Grell, Philippe, Harmant, Dodd, and Driscoll. 3,356,589.
Johnston, Charles. 3,303,099.
Maldague, Pierre E. J. M. 3,305,450.
Prince, Michael J., and Timbs. 3,298,922.
Timbs, Arthur E., and Dodd. 3,301,764.
Societe Anonyme Andre Citroen: *See*—
Brueder, Antoine. 3,316,778.
Brueder, Antoine. 3,324,739.
Brueder, Antoine. 3,325,224.
Brueder, Antoine. 3,330,372.
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Cadiou, Jean. 3,337,233.
Cadiou, Jean. 3,357,718.
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Cadiou, Jean G. 3,329,136.
Henry-Biabaud, Edmond. 3,301,248.
Henry-Biabaud, Edmond. 3,307,662.
Henry-Biabaud, Edmond. 3,316,031.
Henry-Biabaud, Edmond. 3,322,420.
Henry-Biabaud, Edmond. 3,329,153.
Henry-Biabaud, Edmond. 3,353,815.
Panhard, Paul. 3,329,133.
Societe Anonyme, Ateliers Heuze, Malevez et Simon: *See*—
Dryon, Jacques M. C. 3,340,036.
Societe Anonyme Babbitless: *See*—
Barrot, Paul M. E., and Lemardeley. 3,305,181.
Lemardeley, Claude Y. L., and Barrot. 3,300,149.
Societe Anonyme Colortex: *See*—
Mersch, Georges. 3,322,401.
Societe Anonyme; Compagnie des Ateliers et Forges de la Loire St. Chamond-Firminy-St. Etienne-Jacob-Holtzer: *See*—
Namy, Gerald. 3,332,676.
Societe Anonyme COQ France: *See*—
Picard, Pierre, and Bokshorn. 3,297,848.
Picard, Pierre, and Boudiak. 3,329,786.
Societe Anonyme D.B.A.: *See*—
Seidermann, Jacques. 3,296,835.
Thirion, Rene. 3,344,891.
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Toulier, Pierre. 3,299,719.
Societe Anonyme de Machines Electrostatiques: *See*—
Barford, John C., Dias, and Glentworth. 3,323,933.
Point, Marcel A. R. 3,339,840.
Societe Anonyme de Telecommunications: *See*—
Bezerie, Jean P. 3,332,641.
Verges, Paul F., and Delebecque. 3,323,167.
Societe Anonyme des Ateliers d'Aviation Louis Breguet: *See*—
Bruner, Georges. 3,333,772.
Fontaine, Jean-Claude. 3,303,714.
Pierrat, Jean. 3,329,062.
Ricard, Armand G. 3,334,845.
Zimer, Joel. 3,303,715.
Societe Anonymes des Atellers de Secheron: *See*—
Farinelli, Rene, Maret, and Riondel. 3,317,806.
Wagenleitner, Alois, Montjovent, and Llebisch. 3,349,215.
Societe Anonyme des Atellers et Chantiers de la Seine Maritime: *See*—
Herrenschmidt, Pierre. 3,339,778.
Societe Anonyme des Ateliers G.S.P. Guillemin: *See*—
Pegard, Pierre. 3,307,083.
Riondel, Pierre, and Garnier. 3,344,333.
Societe Anonyme des Etablissements Leon Hatot: *See*—
Dietsch, Jacques J. G. 3,349,305.
Societe Anonyme des Usines Chausson: *See*—
Jentet, Maxime L. 3,305,469.
Plegat, Alain E. 3,312,015.
Plegat, Alain E. 3,318,281.
Plegat, Alain E. 3,318,503.
Societe Anonyme dite: Compagnie Francaise de Raffinage: *See*—
Grosmangin, Jacques, Besancon, and Petit. 3,328,379.
Societe Anonyme dite; Laboratoire Roger Bellon: *See*—
Pesson, Marcel. 3,310,555.
Reynaud, Pierre. 3,358,022.
Societe Anonyme dite: l'Oreal: *See*—
Kalopissis, Grégoire, Vlout, and Vanlerberghe. 3,337,548.
Societe Anonyme dite: Orsymonde: *See*—
Lafon, Victor. 3,325,488.
Prevost, Henri M. 3,310,094.
Societe Anonyme dite: Pneumatiques et Caoutchouc Manufacture et Plastiques Kleber Colombes: *See*—
Hamelin, Jean J., and Roulet. 3,326,400.
Landler, Yvan, and Lebel. 3,308,074.
Societe Anonyme dite: Societe de Constructions de Montbard: *See*—
Gillet, Charles E. 3,355,923.
Societe Anonyme dite: Societe Francaise d'Etiquetage Virey & Garnier: *See*—
Della Vite, Romuald R. 3,322,597.
Societe Anonyme dite: Societe Generale de Traction et d'Exploration: *See*—
Aubert, Jean. 3,331,208.
Societe Anonyme dite: Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.): *See*—
Boissier, Jacques R., and Combes. 3,299,124.
Boissier, Jacques R., and Maden. 3,355,459.
Ores, Bernard, Zuckerkandl, and Philippe. 3,296,246.
Societe Anonyme dite: UNITEC: *See*—
Verbaere, Andre R. 3,317,371.
Societe Anonyme dite: Vallourec: *See*—
Chamayou, Gerard. 3,356,394.
Dedieu, Jacques M. B. 3,308,700.
Gillet, Charles. 3,342,109.
Societe Anonyme Etablissements Bresson-Faille-Marchand: *See*—
Alletru, Jean L. 3,300,743.

Societe Anonyme: Etablissements Kuhlmann: *See*—
Biet, Alfred G. P. 3,305,316.
Societe Anonyme: Etablissements Simon: *See*—
Simon, Roger J. A. 3,353,270.
Societe Anonyme Francaise des Apparells Automatiques Taximetres-Taxiphones-S.A.F.A.A.: *See*—
Martinet, Andre. 3,338,510.
Societe Anonyme Francaise du Ferodo: *See*—
Francois, Jean G. 3,315,769.
Francois, Jean G. 3,357,525.
Lepelletier, Pierre A. G. 3,306,678.
Lepelletier, Pierre A. G. 3,340,968.
Lepelletier, Pierre A. G. 3,338,351.
Lepelletier, Pierre A. G. 3,351,161.
Maurice, Jean. 3,305,051.
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Maurice, Jean. 3,323,624.
Maurice, Jean. 3,327,820.
Societe Anonyme Geoffroy-Delore: *See*—
Gonguet, Jean. 3,329,361.
Haughwitz, Otto. 3,309,857.
Societe Anonyme Glaverbel: *See*—
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Societe Anonyme Godderidge & Cie: *See*—
Gonguet, Jean. 3,329,361.
Societe Anonyme Iwan Simonis, S.A.: *See*—
Malchair, Armand. 3,342,219.
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Societe Anonyme, Lesieur, Georges & Ses Fila: *See*—
Doucet, Gilles. 3,332,724.
Societe Anonyme le Textile Delier: *See*—
Groebli, Gustave. 3,314,123.
Societe Anonyme l'Industrie Biologique Francaise: *See*—
Aubriot, Annie (Boussac). 3,320,128.
Societe Anonyme Poclain: *See*—
Guinot, Gabriel L. 3,296,937.
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Guinot, Gabriel L. 3,323,666.
Guinot, Gabriel L. 3,335,809.
Societe Anonyme, Prochirhim: *See*—
Meyer, Robert, and Muller. 3,340,082.
Societe Anonyme Safege-Transport: *See*—
Chadenson, Lucien F. 3,310,004.
Societe Anonyme Simca Automobiles: *See*—
Agostini, Antoine A., and Lagriffol. 3,334,671.
Blavette, Roger. 3,327,556.
Cauvin, André. 3,326,501.
Cauvin, Andre. 3,338,620.
Chariatte, Georges C. 3,331,364.
Dumas, Roger. 3,328,069.
Klitzing, Guillaume. 3,335,269.
Societe Anonyme: Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique Alcatel: *See*—
Frindel, Sebastien. 3,328,885.
Maudinet, Louis, Ziegelmeyer, and Dintzner. 3,301,588.
Rodallec, Jean P. R. 3,304,763.
Societe Anonyme: Societe d'Etude de la Propulsion par Reaction: *See*—
Vilet, Andre. 3,334,489.
Detalle, Bernard. 3,357,260.
Societe Anonyme Tubest: *See*—
De la Tramerye, Raymond. 3,310,082.
Societe Antargaz Societe Anonyme de Distribution de Gaz Liquides de Petrole: *See*—
Vezzoli, Louis A. 3,321,001.
Societe a Responsabilite Limitee, Allard & Fils: *See*—
Allard, Adrien. 3,306,520.
Societe Astra de Bouchage, Surbouchage & Conditionnement, Societe Anonyme, & Lesieur, Georges & Ses Fils, Societe Anonyme: *See*—
Bereziat, André, and Janssen. 3,341,046.
Societe Auxitra: *See*—
Fauchere, Jean. 3,348,709.
Societe Belge de l'Azote et des Produits Chimiques du Marley: *See*—
Braconier, Frederic F. A., and Riga. 3,299,161.
Lefebvre, Andre G. F., Englebert, and Geukenne. 3,359,075.
Societe Biraghi: *See*—
Peignen, Henri J. 3,324,275.
Societe Boulonnaise de Recherches et de Diffusion Pharmaceutiques "Sobore" Societe Anonyme: *See*—
Valery, Jean, and Laville. 3,336,193.
Societe Chimie et Synthise de Picardie: *See*—
Vincent, Andre. 3,358,000.
Societe Civile de Recherches et d'Etudes Industrielles: *See*—
Vincens, Rene. 3,333,752.
Vincens, Rene, and Lemaire. 3,304,121.
Societe Civile des produits Lline: *See*—
Jullus, Anatole. 3,329,509.
Societe Civile dite; Societe Civile d' Etudes de Centrifugation: *See*—
Babel, Louis, and Peytavin. 3,353,587.
Societé d'Applications Générales d'Electricité et de Mécanique: *See*—
Sourgens, Roger P. 3,336,576.
Societe Degremont Societe Anonyme: *See*—
Binder, Pierre, and Lecouffe. 3,298,871.
Schiffers, Auguar. 3,335,868.
Societe de la Viscose Suisse: *See*—
Krieger, Alex. 3,298,994.
Krieger, Alex. 3,340,227.
Settele, Walter G. 3,297,807.
Wyss, Daniel and W. 3,322,554.
Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieres Electriques d'Ugine: *See*—
Besson, Paul, Nallet, and Luiset. 3,305,585.
Borrel, Marcel. 3,328,268.
Borrel, Marcel, and Konareff. 3,301,890.
Chabrier, Henri, and Saint-Joanis. 3,311,301.
Cloppet, Raymond. 3,336,100.
Danis, Francois, Cloppet, and Montanteme. 3,356,493.
Du Bellay, Marc G., and Sanlaville. 3,336,109.
Gravey, Guy. 3,357,858.
Greffe, Andre. 3,317,308.
Guerin, Jean, and Aigueperse. 3,323,860.
Modiano, Jacques, and Weiss. 3,328,266.
Parisot, Gerard. 3,300,279.
Szobel, Laszlo, and Parvi. 3,297,594.
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Soderquist, Leslie E., to McNeil Corp. Press for shaping and curing pneumatic tires. 3,336,635, 8–22–67, Cl. 18—17.
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Sonnabend, Lawrence F., to The Dow Chemical Co. Ureidomethyl diaromatic ether-aldehyde polymers. 3,324,082, 6–6–67, Cl. 260—52.

Sonnabend, Lawrence F., to The Dow Chemical Co. Bis[α-(substituted phenylthio)-ρ-tolyl]ethers. 3,338,976, 8–29–67, Cl. 260—609.

Sonnabend, Lawrence F., to The Dow Chemical Co. Resins from poly(halomethyl) diphenyl oxide and urea. 3,345,330, 10–3–67, Cl. 260—47.

Sonnberger, Felix. Cutting implements for cables. 3,359,636, 12–26–67, Cl. 30—180.

Sonneborn, Ralph H., F. A. De Toledo, and R. Z. Bell, to Owens-Corning Fiberglas Corp. Postformed resin shapes. 3,329,555, 7–4–67, Cl. 161—104.

Sonneborn, Ralph H., and F. A. De Toledo, to Owens-Corning Fiberglas Corp. Method for polymerizing resins. 3,337,674, 8–22–67, Cl. 264—327.

Sonnemann, William K., to Westinghouse Electric Corp. Distance relaying. 3,303,390, 2–7–67, Cl. 317—36.

Sonnemann, William K., to Westinghouse Electric Corp. Static time-overcurrent relays. 3,312,867, 4–4–67, Cl. 317—36.

Sonnemann, William K., to Westinghouse Electric Corp. Broken conductor sensing device. 3,327,170, 6–20–67, Cl. 317—27.

Sonnenberg, Charles F., and J. H. Frakes, to Westinghouse Electric Corp. Terminal bushing having recessed spring assembly with electrostatic shielding construction. 3,331,918, 7–18–67, Cl. 174—142.

Sonnenberg, Joseph: *See*—
Kantor, Simon W., and Sonnenberg. 3,306,876.

Sonnenburg, Paul N., to United States of America, Air Force. Half slipper and beam for gliding track vehicle. 3,330,222, 7–11–67, Cl. 104—134.

Sonnenfeld, Richard J.: *See*—
Gilchrist, Ralph E., and Sonnenfeld. 3,344,858.
Uraneck, Carl A., Buck, Trepka, and Sonnenfeld. 3,326,881.

Sonnenfeld, Richard J., to Phillips Petroleum Co. Polymers of 1-monolefins and an alkenyl acetylene and process for preparing same. 3,299,016, 1–17–67, Cl. 260—80.5.

Sonnenschein, George, to General Motors Corp. Thermoelectric module. 3,303,058, 2–7–67, Cl. 136—230.

Sonnenschein, Hans, and K.-H. Schnug, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for contacting gas with article material in counterflow. 3,305,939, 2–28–67, Cl. 34—54.

Sonner, Josef. Vehicle frame device. 3,330,043, 7–11–67, Cl. 33—174.

Sonnet, Phillip E.: *See*—
Farnham, Alford G., and Sonnet. 3,359,306.

Sonneville, Roger P. Railway track support. 3,313,486, 4–11–67, Cl. 238—117.

Sonntag, Aloys: *See*—
Ginsbach, Karl-Heinz, and Sonntag. 3,307,240.

Sonntag, Clemens A., to The Parker Pen Co. Ink cartridge. 3,332,400, 7–25–67, Cl. 120—45.4.

Sonntag, Wallace E., Jr., to Carrier Corp. Thermoelectric panels. 3,325,312, 6–13–67, Cl. 136—212.

Sonobe, Kozo: *See*—
Nakaoka, Toshio, Sonobe, Suganuma, and Mori. 3,341,566.

Sonobond Corp.: *See*—
Jones, James B., and De Prisco. 3,319,984.

Sonoco Products Co.: *See*—
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Cunningham, McCleery B., and Dunlap. 3,323,751.
Wright, Leon C. 3,355,121.

Sonomotive Engineers Ltd.: *See*—
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Sonoro Products Co.: *See*—
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Numakura, Toshihiko. 3,324,414.
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Tamura, Michio. 3,330,682.
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Sonotone Corp.: *See*—
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McCarthy, Robert J. 3,297,933.
McCarthy, Robert J., and Sobel. 3,321,690.
Murphy, Eugene F. 3,297,932.
Pearson, Harry A. 3,296,514.
Sobel, Hyitch J. 3,329,882.
Vignini, Walter R. 3,321,332.

Sonoyama, Yutaka, to Hitachi, Ltd. Alternating current electric motor rotor. 3,321,653, 5–23–67, Cl. 310—180.

Sontag, Harcourt. Removable swivel head for tool handles. 3,307,437, 3–7–67, Cl. 81—177.

Sontheimer, Carl G., to Anzac Electronics, Inc. Electrical connector for transmission lines and the like. 3,325,587, 6–13–67, Cl. 174—72.

Sontheimer, Heinrich. Process for dewatering organic sludges from waste water treatment. 3,345,288, 10–3–67, Cl. 210—10.

Sontheimer, Heinrich, and D. Heinicke. Dewatering organic sludge which has been separated during treatment of waste water. 3,300,401, 1–24–67, Cl. 210—5.

Sonus Corp.: *See*—
Kolm, Eric A. 3,321,648.

Sony Corp.: *See*—
Amatsu, Hideo, and Esashi. 3,348,668.
Fujimoto, Toshihiro. 3,360,735.
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Kihara, Nobutoshi. 3,359,365.
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Soodalter, Arnold. Meat tenderizing apparatus. 3,334,377, 8–8–67, Cl. 17—28.

Soojian, Vahn J., to Howe Richardson Scale Co. Material feeding. Re. 26,221, 6–6–67, Cl. 177—120.

Sooke, Robert J. Sound reproducer with means for attachment to a telephone handpiece. 3,299,207, 1–17–67, Cl. 179—1.

Sookne, Arnold M.: *See*—
Davis, Agnes E., and Sookne. 3,350,160.

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Baker, Don R., Pitt, and Soong. 3,350,191.
Imel, Arthur M., Jr., and Soong. 3,334,989.

Soong, William E.: *See*—
Miller, Robert E., Des Jardins, and Soong. 3,324,766.

Soong, William E., and J. W. Thomsen, to Bell & Howell Co. Web supply mount for web handling apparatus. 3,337,147, 8–22–67, Cl. 242—55.11.

Soos, James E., to United States of America, Army. Time slot delay storage. 3,334,186, 8–1–67, Cl. 179—15.

Soos, James E., to United States of America, Army. Delay time-slot storage. 3,334,188, 8–1–67, Cl. 179—15.

Soos, James E., to United States of America, Army. Delay storage time slot selector. 3,334,189, 8–1–67, Cl. 179—15.

Sooter, Claude W. Protective guard for safety razor. 3,327,388, 6–27–67, Cl. 30—90.

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Howard, Carlton J., Sopchak, and Port. 3,314,748.

Soper, Quentin F., to Eli Lilly and Co. Method of eliminating germinating and seedling weed grasses and broadleaf weeds. 3,332,769, 7–25–67, Cl. 71—2.3.

Sopher, Bruce M., and J. W. Collins, to Farr Co. By-pass damper device. 3,360,005, 12–26–67, Cl. 137—512.1.

Sophie Mae Candy Corp.: *See*—
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Soprani, Paolo S. Casing for portable apparatus, in particular for portable musical instruments. 3,298,478, 1–17–67, Cl. 190—11.

Sorber, Gilbert E.: *See*—
Bell, John A., Cofer, and Sorber. 3,349,471.

Sorbie, Thomas B., to Owens-Illinois, Inc. Inspecting glass containers having rounded top finishes. 3,327,849, 6–27–67, Cl. 209—111.5.

Sordello, Frank J., and G. J. Thaler, to International Business Machines Corp. Phase differential compensation circuit. 3,310,732, 3–21–67, Cl. 323—101.

Sorensen, Egon, and J. G. Crost, to Sunroc Corp. Water cooling system. Re. 26,160, 2–21–67, Cl. 62—391.

Sorensen, Elo, to Carmo Aktieselskab. Apparatus for handling objects. 3,352,402, 11–14–67, Cl. 198—33.

Sorensen, Harold W. Anhydrous ammonia converter. 3,355,257, 11–28–67, Cl. 23—285.

Sorensen, Leif E., and S. Djernas, said Djernas, assor. to said Sorensen. Hydraulic piston devices cooperating with sliding potentiometers. 3,355,690, 11–28–67, Cl. 338—39.

Sorensen, Phillips N., to The Ohio Crankshaft Co. Power transformer for industrial heating apparatus. 3,300,614, 1–24–67, Cl. 219—10.43.

Sorensen, Robert: *See*—
Scarnato, Thomas J., Sorensen, Dryan, and Lawler. 3,302,978.

Sorensen, Robert L., and H. D. Parks, to Time Inc. Copy editor processing device. 3,328,764, 6–27–67, Cl. 340—172.5.

Sorensen, Svend E.: *See*—
McHale, William L., Sorensen, and O'Connor. 3,312,077.

Sorensen, Svend E., and W. L. McHale, to Robertshaw Controls Co. Defroster control or the like. 3,299,237, 1–17–67, Cl. 200—140.

Sorenson, Theodore L., and F. C. Shovic. Weighing device with electronic computer. 3,351,236, 11–7–67, Cl. 222—20.

Sorensen, Wayne R.: *See*—
Boyer, Lyndon D., and Sorenson. 3,355,428.

Sorenson, Glenn P., to MB Associates. Radar reflector rocket. 3,308,759, 3–14–67, Cl. 102—49.

Sorenson, James L.: *See*—
Czorny, Vasil P., Ring, Pannier, and Sorenson. 3,297,030.
Czorny, Vasil P., Ring, Pannier, and Sorenson. 3,324,853.

Sorenson Research Corp.: *See*—
Czorny, Vasil P., Ring, Pannier, and Sorenson. 3,297,030.
Czorny, Vasil P., Ring, Pannier, and Sorenson. 3,324,853.

Sorenson, Wayne R., to E. I. du Pont de Nemours and Co. Polyamide esters. 3,312,663, 4–4–67, Cl. 260—47.

Sorenson, Wesley T. Toggle switch with domed, slotted guide plate. 3,327,078, 6–20–67, Cl. 200—67.

Soretz, Stefan, to Tor-Isteg Steel Corp., S.A.H. Spirally ribbed reinforcing bar for concrete. 3,335,539, 8–15–67, Cl. 52—737.

Sorg, Harry H., Jr., to Re Lo Mfg. Co. Can for explosive charge. 3,348,483, 10–24–67, Cl. 10—24.

Sorg, Karl W., and P. Heimbach, to Linde Aktiengesellschaft. Apparatus for separation of liquids from gases. 3,300,951, 1–31–67, Cl. 55—355.

Sorgenti, Harold A.: *See*—
De Witt, William J., Sorgenti, and Taylor. 3,342,888.

Sorgenti, Harold A., to The Atlantic Refining Co. Isomerization of 2-phenyl alkanes. 3,352,933, 11–14–67, Cl. 260—668.

Soriano Mestre, Carlos: *See*—
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Soriente, Alfonse J., and J. H. Duff, to Union Tank Car Co. Filter and scouring gas blower system. 3,342,334, 9–19–67, Cl. 210—108.

Sorm, Frantisek, and A. Piskala, to Ceskoslovenska Akademie ved. Process for the manufacture of 1-glycosyl-5-azacytosines. 3,350,388, 10–31–67, Cl. 260—211.5.

Sormberger, Richard L.: *See*—
Cusano, Dominic A., and Sormberger. 3,330,983.

Sornsen, Wallace V., to Paul E. Hawkinson Co. Power operated retread tire press. 3,300,814, 1–31–67, Cl. 18—18.

Sornsen, Wallace V., to Paul E. Hawkinson Co. Bead repair mold. 3,310,838, 3–28–67, Cl. 18—18.

Sornsen, Wallace V., to Paul E. Hawkinson Co. Tire holding apparatus. 3,331,412, 7–18–67, Cl. 144—288.

Soroka, Bernard, to United States of America, Army. Series connected SCR's sequentially fired by consecutive pulses to provide single output pulse and remaining conductive until reset. 3,324,313, 6–6–67, Cl. 307—88.5.

Sorokin, Peter P., to International Business Machines Corp. Lasers. 3,308,395, 3–7–67, Cl. 331—94.5.

Soroos, James P., and P. J. Regan, to The Coleman Co., Inc. Lift and locator assembly for camping trailer kitchen unit. 3,347,591, 10–17–67, Cl. 296—23.

Sorrell, Norwood L., to Foundry Products and Methods, Inc. Cover assembly. 3,331,295, 7–18–67, Cl. 94—34.

Sorrell, Richard L.: *See*—
Paul, James H., Dickinson, and Sorrell. 3,330,001.
Paul, James H., Dickinson, and Sorrell. 3,360,420.

Sorrells, John R., and J. Rabinow, to Control Data Corp. Magnetic mail coding apparatus. 3,309,711, 3–14–67, Cl. 346—74.

Sorrenti, Sandy S. Centrifugal blowers for agricultural sprayer. 3,335,943, 8–15–67, Cl. 230—127.

Sorrentino, Ralph P.: *See*—
Findlan, John C., Sorrentino, and Wakeman. 3,296,145.

Sorrie, Alexander J. S.: *See*—
Wiener, Hans B., Sorrie, and Featherstone. 3,304,341.

Sorvall, Ivan, Inc.: *See*—
Filz, Charles J., and Blum. 3,309,032.

Sosalla, Harry L., to Noble Mfg. Co. Stabilizer for wheeled harrow drawbar with folding wings. 3,302,956, 2–7–67, Cl. 280—411.

Sosey, William F., and E. J. Tenpas, to Erlez Mfg. Co. Magnetic chuck. 3,320,564, 5–16–67, Cl. 335—285.

Sosin, Boleslaw M., to The Marconi Co. Ltd. Frequency synthesizers, including provisions for the precise electrical control of a variable oscillator. 3,349,338, 10–24–67, Cl. 331—18.

Sosin, Boleslaw M., and R. E. J. Gerard, to The Marconi Co., Ltd. Tuned transistor amplifiers having increased efficiency. 3,325,745, 6–13–67, Cl. 330—13.

Sosnovsky, George, J. W. Garner, and D. E. Laskowski, to The Frederick Post Co. Process of producing azo compounds by heating diazo compositions comprising precursory couplers activable by heat. 3,331,689, 7–18–67, Cl. 96—49.

Sosower, Leon, to Tri-Men Mfg. Corp. Apparatus for removing sediment from swimming pools. 3,310,173, 3–21–67, Cl. 210—169.

Soss Mfg. Co.: *See*—
Pohl, Milton S., and Schwartz. 3,319,061.

Sothcott, Peter: *See*—
Earp, Charles W., Cleaver, and Sothcott. 3,335,418.

Sotherlin, Lois. Protective sleeve for elbow or heel. 3,322,118, 5–30–67, Cl. 128—149.

Sotir, Joseph E.: *See*—
Risk, George, Root, and Sotir. 3,300,900.

Soto, Dario T., to Soto Mfg. and Welding Co. Stair climbing hand truck. 3,346,269, 10–10–67, Cl. 280—5.26.

Soto, Enrique. Pleating apparatus and method. 3,297,215, 1–10–67, Cl. 223—28.

Soto Mfg. and Welding Co.: *See*—
Soto, Dario T. 3,346,269.

Soto, Ricardo H. Feeding device for infants and method. 3,301,423, 1–31–67, Cl. 215—11.

Soto, Ricardo H. Aseptic draining and support means for flexible bags. 3,306,563, 2–28–67, Cl. 248—224.

Sotome, Kiyoshi. Insecticidal emulsions. 3,329,563, 7–4–67, Cl. 167—42.

Sotome, Yoshihiro: *See*—
Hayashi, Teruo, Watanabe, and Sotome. 3,304,470.

Sottile, Samuel R. Guitar strap. 3,323,698, 6–6–67, Cl. 224—5.

Souady, Paul: *See*—
Solomir, John G., Akeret, and Souady. 3,343,209.

Soubiran, Jean P. Inflatable buoy. 3,321,785, 5–30–67, Cl. 9—316.

Soubis, Jean-Pierre, to L'Institut Francais du Petrole, Des Carburats et lubrifiants. Automatic arrangement for a carburetor. 3,348,824, 10–24–67, Cl. 261—41.

Soucy, Floyd E. Beverage container and straw. 3,325,076, 6–13–67, Cl. 229—7.

Souder, Louis C.: *See*—
Cenci, Harry J., and Souder. 3,301,919.

Soudinaitis, Emanuel, to Zenith Radio Corp. Television sweep system with semiconductor switch and energy storage device for expediting its activation. 3,300,680, 1–24–67, Cl. 315—29.

Souffie, Robert D., to E. I. du Pont de Nemours and Co. Abrasion resistant vulcanizates comprising EPD rubber, carbon black, and minor amounts of natural rubber of SBR. 3,331,793, 7–18–67, Cl. 260—4.

Souffie, Robert D., to E. I. du Pont de Nemours and Co. Coating composition containing an ethylene, propylene, nonconjugated diene terpolymer. 3,342,769, 9–19–67, Cl. 260—33.6.

Soulakis, George, Jr.: *See*—
Paine, Bud A., and Soulakis. 3,300,594.

Soule Steel Co.: *See*—
Vevoda, Ernest. 3,298,886.
Williamson, Calvin C. 3,355,993.

Soule, William J.: *See*—
Kylander, John C., and Soule. 3,310,678.

Soule, Winsor, Jr., and E. P. Binnall, to SCM Corp. Magnetic drum memory and computer. 3,348,215, 10–17–67, Cl. 340—172.5.

Soule, Winsor, Jr., and E. P. Binnall, to SCM Corp. Data processing with typewriter input-output device and typewriter carriage controlled program means. 3,353,163, 11–14–67, Cl. 340—172.5.

Soulen, John R., and W. H. Chappell, Jr., to Pennsalt Chemicals Corp. High temperature, short-contact-time-pyrolysis of chlorodifluoromethane. 3,354,232, 11–21–67, Cl. 260—653.

Soulen, Robert L.: *See*—
Edwards, Gayle D., Rice, and Soulen. 3,297,597.

Soules, Jack A. Method of producing optical gratings. 3,328,192, 6–27–67, Cl. 117—37.

Soules, Jack A., and F. T. Byrne. Fast laser switch. 3,328,112, 6–27–67, Cl. 350—285.

Soults, Robert C.: *See*—
Brown, John W., and Soults. 3,337,189.

Sound Craft Systems, Inc.: *See*—
Shaw, Henry W., and Gamble. 3,324,254.

Sourgens, Roger P., to Société d'Applications Générales d'Electricité et de Mécanique. Data transmitting system. 3,336,576, 8–15–67, Cl. 340—146.1.

Sours, William A., Y. M. Hoag, to General Electric Co. Speed changer for tape recorders. 3,354,734, 11–28–67, Cl. 74—190.

Sousa, Anthony A.: *See*—
Manning, David T., and Sousa. 3,346,584.

Sousa, Anthony A., to Union Carbide Corp. Method of defoliating cotton plants. 3,321,293, 5–23–67, Cl. 71—2.5.

Sousa, Anthony A., to Union Carbide Corp. Microbicidal methods and compositions containing iodocyanoacetylene. 3,321,363, 5–23–67, Cl. 167—22.

Sousa, Anthony A., and H. W. Spurr, Jr., to Union Carbide Corp. 1,4-dihalo-1,4-dinitro-1,3-butadiene foliage fungicides and bactericides. 3,342,671, 9–19–67, Cl. 167—22.

Sousa, Lionel A. J.: *See*—
Maguire, Philip F., Jr., and Sousa. 3,311,135.

Sousloff, Dimitri G., and V. A. Iannucci, to Textile Machine Works. Apparatus for making textured yarn. 3,333,441, 8–1–67, Cl. 66—147.

Sout, Allison B., Jr., to Kennecott Copper Corp. Directional air sampler. 3,299,700, 1–24–67, Cl. 73—170.

Souter, Eugene H. Cold-flow splices and tools therefor. 3,350,761, 11–7–67, Cl. 29—34.

South African Farm Implement Manufacturers Ltd.: *See*—
Perold, Louis. 3,324,955.

South African Inventions Development Corp.: *See*—
Krauss, Lutz, and Schroeder. 3,356,895.
Polson, Alfred. 3,335,127.
Strashelm, Albertus. 3,350,567.

South African Iron and Steel Industrial Corp. Ltd.: *See*—
Beeton, Thomas B., Hoffman, and Du Plessis. 3,350,197.

South Bend Toy Mfg. Co., Inc.: *See*—
Chreist, Louis R., Jr. 3,318,615.

South Chester Corp.: *See*—
Barry, John K. 3,302,964.

South, Eugene F. Concentrator. 3,338,410, 8–29–67, Cl. 209—44.

South, Jack H. Telephone transmitted alarm unit using selector switches to transmit and receive dial and message pulses. 3,317,673, 5–2–67, Cl. 179—5.

South, Peter, and J. W. Tanney, to Canadian Patents and Development Ltd. Fluid flow measuring device. 3,343,413, 9–26–67, Cl. 73—194.

South, Robert J.: *See*—
Landingham, Richard E., and South. 3,340,788.

South Side Nursing Home, Inc.: *See*—
Piekarski, Clara L. 3,349,769.

South, William H., and J. D. Findley, Jr., to Westinghouse Electric Corp. Tripping means for circuit breakers. 3,307,123, 2–28–67, Cl. 335—18.

Southall, Philip R., to H. C. Webb & Co., Ltd. Lawn mowers. 3,336,042, 8–15–67, Cl. 280—47.37.

Southam, Donald L., to TRW Inc. Redundant binary turboelectric power system. 3,303,646, 2–14–67, Cl. 60—49.

Southam, Donald L., to TRW Inc. Heat exchanger. 3,311,166, 3–28–67, Cl. 165—166.

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Phillips, Norman W. F., and Southam. 3,336,731.
Phillips, Norman W. F., and Southam. 3,343,946.
Rapson, Bryan, and Southam. 3,311,362.

Southam, Frederick W., to Aluminium Laboratories Ltd. Procedures for decomposing gaseous aluminum subhalide. 3,351,461, 11–7–67, Cl. 75—68.

Southard, Creston R. Dish washing machine. 3,310,150, 3–21–67, Cl. 198—24.

Southard, Ralph R., Jr. Threading apparatus. 3,307,344, 3–7–67, Cl. 57—31.5.

Southdown, Inc.: *See*—
Barrilleaux, Leo S., Jr., and Richard. 3,338,439.

Southerland, Elizabeth L.: *See*—
Southerland, James E. and E. L. 3,354,883.

Southerland, James E., deceased (by E. L. Southerland, Executrix). Disposable syringe having frangible means for mixing plural medicaments. 3,354,883, 11–28–67, Cl. 128—232

Southern California Edison Co.: *See*—
Dundas, Robert H., and Gosselin. 3,310,365.

Southern California Engineering Co.: *See*—
Bliss, Willis H., and Mueller. 3,333,699.

Southern, David, to Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Digital output phase meter. 3,323,053, 5–30–67, Cl. 324—83.

Southern Illinois University Foundation: *See*—
Gass, George H., and Bunten. 3,334,614.

Southern, John P.: *See*—
Yunker, Robert E., and Southern. 3,298,344.
Yunker, Robert E., and Southern. 3,313,262.

Southern Machine Co., Inc.: *See*—
Cobble, James A., Sr. and J. A. Cobble, Jr. 3,326,156.
Cobble, James A., Sr., and J. A. Cobble, Jr. 3,352,265.

Southern Machinery Co.: *See*—
Edler, Otto E. A., and Garrison. 3,325,110.
Jones, Coy V., Sr., and Edler. 3,300,961.
Jones, Coy V., Sr., and Engels. 3,357,167.
Owens, Carlos L. 3,320,979.
Rothfuss, William J., and Robinson. 3,295,483.
Rothfuss, William J., Robinson, and Emus. 3,314,675.

Southern Metal Products Corp.: *See*—
Beasley, Thomas J., Jr., and Rodenbaugh. 3,325,945.
Beasley, Thomas J., Jr., and Rodenbaugh. 3,328,919.

Southern Mills: *See*—
Schlemon, George. 3,326,427.

Southern Pacific Land Co.: *See*—
Smith, Earl D. 3,332,098.

Southern Powell Corp.: *See*—
Melton, Guilford B. 3,327,627.

Southern Research Institute: *See*—
Burks, Robert E., Jr., Lacey, and Christy. 3,311,571.
Raenher, Arthur E., Verchot, and Mileski. 3,313,650.

Southern Spring Bed Co.: *See*—
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Southern States, Inc.: *See*—
Caldwell, John R., and Mayo. 3,320,376.
Layson, Allen D., and Caldwell. 3,305,182.

Southern Steel Co.: *See*—
Brownlng, James E., and Youngblood. 3,343,302.

Southern Textile Machinery Co., Inc.: *See*—
Shelton, Russell S. 3,316,866.
Shelton, Russell S. 3,316,869.

Southhall & Smith Ltd.: *See*—
Parker, Denis R. 3,305,133.

Southington Mfg., Inc.: *See*—
Kawecki, Ralph E. 3,355,151.

Southward, Ronald W.: *See*—
Eagles, Robert P., and Southward. 3,322,101.

Southwell, Wyndham F., and N. Wehrmann, to L & L Mfg., Inc. Fabric stretching and/or alternately-reversing mechanism for separating fabric pieces from a stack thereof. 3,355,165, 11–28–67, Cl. 271—12.

Southwell, Wyndham F., and N. Wehrmann, to L & L Mfg., Inc. Apparatus for back tacking loose ends of sewing machine stitching, and the like. 3,356,054, 12–5–67, Cl. 112—252.

Southwest Enterprises, Inc.: *See*—
Lewis, Clifford J., and De Ment. 3,341,347.

Southwest Factories, Inc.: *See*—
Eidal, Roy M. 3,356,016.

Southwest Foundation for Research and Education: *See*—
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Southwick, Keith E. Engine and method of producing power. 3,336,746, 8–22–67, Cl. 60—27.

Southwick, Talbot H. Device for detecting halo and color aural radiations. 3,340,865, 9–12–67, Cl. 128—1.

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Souza, Thomas, Jr. Railing system. 3,357,681, 12–12–67, Cl. 256—65.

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Sowa, Frank J. Method of controlling insects and microorganisms. 3,344,019, 9–26–67, Cl. 167—22.

Sowa, Werner, and S. Tillner, to Licentia Patent-Verwaltungs-G.m.b.H. Spin dryer having a shaded-pole motor. 3,358,381, 12–19–67, Cl. 34—58.

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Sowman, Harold G., and J. R. Johnson, to Minnesota Mining and Mfg. Co. Crystalline spherules. Re. 26,294, 11–7–67, Cl. 176—67.

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Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Rubbers stabilized with the reaction product of halo olefins and phenols. 3,317,459, 5–2–67, Cl. 260—45.95.

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Spalding, Joseph M., to Celanese Coatings Co., Inc. Water solubilized epoxy resin esters of fumaric- or itaconic-fatty acid adducts. 3,305,501, 2–21–67, Cl. 260—18.

Spalding, Richard E. T., to American Cyanamid Co. Compositions comprising the heat reaction product of 1,3,5-triacrylhexahydrotriazine and a polyfunctional aromatic amine. 3,322,741, 5–30–67, Cl. 260—88.3.

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Sparks, George C. Package construction. 3,302,777, 2–7–67, Cl. 206—44.
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Newell, John F., and Spradling. 3,327,608.

Spragg, Hal R., L. A. Price, and J. M. Wooldridge, to Universal Match Corp. Atomizer and method for disseminating toxicants. 3,352,238, 11-14-67, Cl. 102—39.

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Sprague, James M., and E. J. Cragoe, Jr., to Merck & Co., Inc. Derivatives of 3,3-spiro-substituted-3,4-dihydro-1,2,4-benzothiadiazine-1,1-dioxides. 3,305,548, 2-21-67, Cl. 260—243.

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Sprague, Robert H., J. A. Stewart, and J. M. Lewis, to Horizons Inc. Method of fixing photographically exposed oxygen-sensitive free radical photosensitive film. 3,351,467, 11-7-67, Cl. 96—48.

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Squire, James R., to The Procter & Gamble Co. Drip controlling fitment. 3,325,034, 6–13–67, Cl. 215—40.

Squire, James R., to The Procter & Gamble Co. Drip controlling fitment for a glass bottle. 3,338,448, 8–29–67, Cl. 215—100.5.

Squire, Robert K., to Superior Scaffold Co. Multiple brace point extendable shore. 3,313,081, 4–11–67, Cl. 52—645.

Squire Robert K., to Superior Scaffold Co. Adapter element for an extendable shore. 3,346,283, 10–10–67, Cl. 287—54.

Squires, Arthur M. Method and apparatus for treating fluids and non-fluid materials. 3,296,775, 1–10–67, Cl. 5—98.

Squires, Arthur M. Top heat power cycle. 3,307,350, 3–7–67, Cl. 60—39.05.

Squires, Arthur M. Method and apparatus for producing oxygen and power. 3,324,654, 6–13–67, Cl. 60—39.02.

Squires, Arthur M. Producing hydrogen and power. 3,355,-249, 11–28–67, Cl. 23—213.

Squires, George R. Adjustable shelving. 3,353,507, 11–21–67, Cl. 108—107.

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Squires, William K. 3,339,144.

Squires, William K., to Squires-Sanders, Inc. Pre-I.F. noise silencer using a bi-directional transistorized gate. 3,339,144, 8–29–67, Cl. 325—478.

Srinivasan, Rangaswamy, to International Business Machines Corp. Method of preparing strained polycyclic hydrocarbon. 3,350,291, 10–31–67, Cl. 204—162.

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Staar, Marcel J. H. Devices for automatic return of the pick-up arm to the normal position in record players. 3,309,093, 3–14–67, Cl. 274—15.

Staar, Marcel J. H., to Usines Gustave Staar, SA. Stepping motor work and feed drive for magnetic tape recorder. 3,327,188, 6–20–67, Cl. 318—39.

Staar, Marcel J. H., to Usines Gustave Staar S.A. Tape recorder control device. 3,347,482, 10–17–67, Cl. 242—55.12.

Staar, Marcel J. H., to Usines Gustave Staar, S.A. Tape senser for dictating machines. 3,349,192, 10–24–67, Cl. 179—100.2.

Staar, Marcel J. H. Frame for supporting a transparency and sound reproducing material. 3,352,204, 11–14–67, Cl. 88—28.

Staar, Marcel J. H., to Usines Gustave Staar S.A. Combined apparatus for projecting slides and recording and playing sound tapes. 3,357,303, 12–12–67, Cl. 88—28.

Staat der Nederlanden, ten deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie, de: *See*—
Van Douren, Hendrik C. A. 3,351,906.

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Staats, James E., to General Electric Co. Electronic oven. 3,317,700, 5–2–67, Cl. 219—10.55.

Staats, William A., to Culligan, Inc. Continuous brine pulsing softener. 3,311,552, 3–28–67, Cl. 210—33.

Staats, William A., to Culligan, Inc. Method and apparatus for ion exchange regeneration. 3,347,785, 10–17–67, Cl. 210—35.

Staba, Edward A., to Olin Mathieson Chemical Corp. Crystalline double salt of lead nitroaminotetrazole and lead styphnate. 3,310,569, 3–21–67, Cl. 260—299.

Staba, Edward A., to Olin Mathieson Chemical Corp. Priming composition containing carbon which exhibits conchoidal fracture. 3,321,343, 5–23–67, Cl. 149—24.

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Stabenau, Robert, S. Voelcker, and H. Tutert, to Siemens & Halske Aktiengesellschaft. Type carrier positioning means employing two motors. 3,308,917, 3–14–67, Cl. 197—48.

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Stabilito, Vincent D., to United States of America, Army. Photomultiplier amplifier and power supply. 3,296,538, 1–3–67, Cl. 328—243.

Stabilito, Vincent D., to United States of America, Army. Single-site monopulse ranging system. 3,303,503, 2–7–67, Cl. 343—112.

Stabilus, Industrie- und Handelsgesellschaft m.b.H.: *See*—
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Stacey, Ernest F., to Rotary Machine Co. Folding machine. 3,317,939, 5–9–67, Cl. 12—55.

Stacey, Hugh J., to Parker-Hannifin Corp. Fluid system and valve assembly therefor. 3,299,903, 1–24–67, Cl. 137—118.

Stach, Kurt, M. Thiel, F. Bickelhaupt, and W. Schaumann, to C. F. Boehringer & Sohne G.m.b.H. Alkoxypiperidine derivatives and their salts. 3,305,547, 2–21–67, Cl. 260—243.

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Fritsch, Werner, and Stache. 3,297,688.

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Stachurski, Zbigniew O. J. Electrochemical thermo-generator. 3,357,860, 12–12–67, Cl. 136—83.

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Stack, Ronald D. Fluid flow pump and boosting apparatus. 3,319,579, 5–16–67, Cl. 103—263.

Stack, Roy E., to Pittsburgh Plate Glass Co. Stabilized methyl chloroform compositions with improved evaporation characteristics. 3,326,988, 6–20–67, Cl. 260—652.5.

Stack, Thomas N., to Minnesota Mining and Mfg. Co. Heaters. 3,307,530, 3–7–67, Cl. 126—116.

Stack, Thomas N., to Minnesota Mining and Mfg. Co. Convergent-stream grid-type gas burner. 3,307,612, 3–7–67, Cl. 158—99.

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Stack, Vernon T., Jr., to Roy F. Weston, Inc. Agitator for dissolved oxygen probe. 3,360,451, 12–26–67, Cl. 204—195.

Stackegard, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Relay protective means for D.C. transmission. 3,325,686, 6–13–67, Cl. 317—28.

Stackhouse, David W., to L. A. Darling Co. Wall construction including outer hat-shaped splines and inner adjustable clips. 3,339,324, 9–5–67, Cl. 52—241.

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Stadden, Richard C., to Armstrong Cork Co. Method of making inlaid plastic surface covering. 3,325,574, 6–13–67, Cl. 264—73.

Stade, Bertil, and E. Hoglund, to Mercury Metal Products, Inc. Dip stick and housing therefor. 3,296,703, 1–10–67, Cl. 33—126.7.

Stade, Gerhard, and G. Stahn, to Herbert Lindner G.m.b.H. & Co., Firma. Thread grinding machine. 3,337,996, 8–29–67, Cl. 51—95.

Stade, Gerhard, and G. Reppin, to Herbert Lindner G.m.b.H. & Co. Profile grinding wheel dressing device. 3,339,537, 9–5–67, Cl. 125—11.

Stadelman, Frank, to Latendorf Conveying Corp. Conveyor means. 3,329,469, 7–4–67, Cl. 302—11.

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Staden, Alfred A., to The British Boot, Shoe and Allied Trades Research Association. Method of preshaping shoe uppers. 3,309,725, 3–21–67, Cl. 12—146.

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Staderini, Aldo. Procedure and device for the direct transposition of raised configurations and creation of composite patterns upon plane surfaces. 3,328,884, 7–4–67, Cl. 33—23.

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Stadler, Hans, H. Gawlick, and H. Bendler, to Dynamit Nobel Aktiengesellschaft. Ignition device. 3,308,758, 3–14–67, Cl. 102—28.

Stadler, Hans, and H. Gawlick, to Dynamit Nobel Aktiengesellschaft. Ignition device. 3,312,168, 4–4–67, Cl. 102—86.5.

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Stadler, Hans, T. Schinnerer, H. Umbach, and G. Marondel, to Dynamit Nobel Aktiengesellschaft. Practice ammunition. 3,326,133, 6–20–67, Cl. 102—92.7.

Stadler, Hans, and H. Gawlick, to Dynamit Nobel Aktiengesellschaft. Fixed ammunition. 3,334,587, 8–8–67, Cl. 102—41.

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Stadler, Hans, and H. Gawlick, to Dynamit-Nobel Aktiengesellschaft. Cartridge. 3,340,809, 9–12–67, Cl. 102—39.

Stadler, Hans, T. Schinnerer, and H. Umbach, to Dynamit Nobel Aktiengesellschaft. Target practice ammunition. 3,342,134, 9–19–67, Cl. 102—41.

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Staeudle, Hans, and K. J. Hecker, to United States of America, Navy. Electronic circuit to synchronize automatically the frequency of a PRF generator with the PRF of a video signal. 3,307,114, 2–28–67, Cl. 331—4.

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Stata, Stanley S. Floor gratings and accompanying dirt and water receptacles for motor vehicles. 3,312,498, 4-4-67, Cl. 296—1.
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Steininger, Erwin. Synthesis of monohalophosphonites. 3,309,430, 3–14–67, Cl. 260—972.

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Stella, Patrick S., to Wagner Electric Corp. Automatic adjusting mechanism. 3,299,993, 1–24–67, Cl. 188—79.5.

Stella, Patrick S., to Wagner Electric Corp. Automatic adjusting mechanism. 3,299,995, 1–24–67, Cl. 188—79.5.

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Stephenson, Edward E., to Brown Co. Laminated closure for food trays and trays closed with same. 3,298,593, 1–17–67, Cl. 229—43.
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Brown, Eric R. 3,356,071.
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Clarke, Robert L. 3,301,865.
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Hinkel, Emil T., Jr. 3,355,387.
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Sterling, George B., and C. E. Pawloski, to The Dow Chemical Co. 2-propynyloxy derivatives of substituted bisphenols. 3,340,308, 9–5–67, Cl. 260—613.
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Sterling, Henley F., and C. F. Drake, to International Standard Electric Corp. Method of masking making semiconductor and etching beneath mask. 3,306,788, 2–28–67, Cl. 148—175.
Sterling, Howard T., to Packard Instrument Co., Inc. Digital programmer for controlling variable condition. 3,321,608, 5–23–67, Cl. 235—151.1.
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Stern, Barry J. Negative resistance device. 3,327,272, 6–20–67, Cl. 338—20.
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Stern, David R., and R. M. Gundzik, to American Potash & Chemical, Corp. Process for treating a gaseous mixture containing titanium dioxide. 3,310,377, 3–21–67, Cl. 23—202.
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Sternbach, Leo H., and G. Saucy, to Hoffmann-La Roche Inc. 2-chloro-5-trifluoromethylbenzophenone compounds. 3,297,-755, 1–10–67, Cl. 260—566.
Sternbach, Leo H., and A. Stempel, to Hoffmann-La Roche Inc. Hydroxy or alkoxy substituted 5-phenyl-3H-1,4-benzodiazepin-2(1H)-ones. 3,336,295, 8–15–67, Cl. 260—239.3.
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Sterzer, Fred, to Radio Corp. of America. High efficiency light modulation system. 3,302,028, 1–31–67, Cl. 250—199.
Sterzer, Fred, to Radio Corp. of America. Phased array light deflecting system. 3,331,651, 7–18–67, Cl. 350—96.
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Stettner, Ernest R., to General Motor Corp. Carburetor accelerating control. 3,334,874, 8–8–67, Cl. 261—23.

Stettner, Max. Hand embossing tool with replaceable tape tracks for different tape widths. 3,323,629, 6–6–67, Cl. 197—6.7.

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Steuernagel, Walter, to Metallgesellschaft Aktiengesellschaft. Fastening means and method of fastening electrostatic filter plates. 3,300,850, 1–31–67, Cl. 29—432.1.

Steuernagel, Walter, to Metallgesellschaft Aktiengesellschaft. Electrostatic gas filter electrode. 3,328,940, 7–4–67, Cl. 55—131.

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Stevens, Charles F. B., to Pulp & Paper Research Institute of Canada. Toilet waste combuster. 3,357,381, 12–12–67, Cl. 110—9.

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Stevens, Curtis R., to Master Specialties Co. Toggle switch. 3,311,723, 3–28–67, Cl. 200—68.

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Stevens, Eric S., to Brunswick Corp. Ball cart. 3,319,798, 5–16–67, Cl. 211—15.

Stevens, Eric S., to ACF Industries, Inc. Vent structure for covered hopper railway cars. 3,326,111, 6–20–67, Cl. 98—6.

Stevens, Eric S., and W. E. Kemp, to ACF Industries, Inc. Sliding gate hopper car discharge structure. 3,348,501, 10–24–67, Cl. 105—248.

Stevens, Frank L., to Admiral Corp. Two temperature refrigerator. 3,359,751, 12–26–67, Cl. 62—186.

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Stevens, Glenn W., and A. A. Siewert, to Stevens Steel and Equipment Co. Hot press outfeed cooling apparatus. 3,304,622, 2–21–67, Cl. 34—55.

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Stevens, Howard C., Jr., to Dresser Industries, Inc. Spring applied, one way disc brake. 3,352,384, 11–14–67, Cl. 188—82.7.

Stevens, Hoyt C. Apparatus for erecting wall panels. 3,328,859, 7–4–67, Cl. 25—1.

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Stevens, Peter P., Jr., to Walter Landor. Pivoted spout dispenser. 3,303,971, 2–14–67, Cl. 222—153.

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Stevens, Peter P., Jr., to W. Lander. Bag closure structure. 3,348,595, 10–24–67, Cl. 150—3.

Stevens, Raymond H., to F. W. Bell Inc. Method and apparatus for determining displacement utilizing a hall plate positioned tangential to an arcuate magnetic field. 3,344,347, 9–26–67, Cl. 324—45.

Stevens, Richard M., to United Aircraft Corp. Torsional impact limiter. 3,298,248, 1–17–67, Cl. 74—609.

Stevens, Robert T., and M. Hersh, to American Home Products Corp. Reinforced directly compressed non-granulated pharmaceutical crystalline lactose tablets. 3,344,030, 9–26–67, Cl. 167—82.

Stevens, Roger W., to United States Steel Corp. Wire rope. 3,306,022, 2–28–67, Cl. 57—148.

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Stevens, Stephen, and P. D. Shaffer, to Pittsburgh Plate Glass Co. Method of and apparatus for bending glass sheets. 3,307,930, 3–7–67, Cl. 65—103.

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Stevens, William B., ½ to D. H. Stevens. Spreading mechanism for pulverulent material. Re. 26,275, 10–3–67, Cl. 222—197.

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Gorzegno, Walter P., Zipay, and Stevens. 3,338,055.

Stevens, William D., and W. P. Gorzegno, to Foster Wheeler Corp. Reheater and superheater circuit arrangement. 3,345,975, 10–10–67, Cl. 122—406.

Stevens, William W., to The McKay Machine Co. Expansible-contractable reel. 3,319,902, 5–16–67, Cl. 242—72.1.

Stevens, William Y., to International Business Machines Corp. Efficient utilization of control storage and access controls therefor. 3,325,785, 6–13–67, Cl. 340—172.5.

Stevenson, Calvin L., to Allis-Chalmers Mfg. Co. Controlled atmosphere magnetic roasting of iron ore. 3,297,429, 1–10–67, Cl. 75—1.

Stevenson, Charles K., to Permaglass, Inc. Glass bending furnace with burner blast guide tubes. 3,340,037, 9–5–67, Cl. 65—287.

Stevenson, Derek A., to R. W. Crabtree & Sons Ltd. Printing cylinder circumferential and lateral register adjustment. 3,808,752, 3–14–67, Cl. 101—248.

Stevenson, Donald E., to Shell Oil Co. 1-substituted 2,6-dihalo phenyl hypnotic and analgesic. 3,303,092, 2–7–67, Cl. 167—52.

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Stevenson, Halsey B., to E. I. du Pont de Nemours and Co. Porous fibers and processes of preparing same. 3,322,611, 5–30–67, Cl. 161—178.

Stevenson, James R., to Rockwell Mfg. Co. Positive displacement meter. 3,304,781, 2–21–67, Cl. 73—253.

Stevenson, John S., to Honeywell Inc. Mixture density control apparatus. 3,330,160, 7–11–67, Cl. 73—433.

Stevenson, Joseph A.: *See*—
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Stevenson, Lawrence G.: *See*—
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Stevenson, Robert A., to Federal Pacific Electric Co. Ground leakage detection apparatus for ungrounded systems including toroidal core detector means. 3,356,939, 12–5–67, Cl. 324—51.

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Stevenson, Robert W., to Mobil Oil Corp. Dyeable polypropylene. 3,355,416, 11–28–67, Cl. 260—41.

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Stevenson, Wilbur W. Flow meter with dampening means. 3,308,661, 3–14–67, Cl. 73—202.

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Fanshawe, Hew D., and Stevenson. 3,329,405.
Mitchell, Colin C., and Stevenson. 3,302,496.

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Kinzie, James E., Pross, Steves, and Trostrud. 3,340,513.

Stevinson, Harry T., D. A. Baker, and G. O. C. Paynter, to Canadian Patents and Development Ltd. Indicator device for release from aircraft. 3,360,728, 12–26–67, Cl. 325—114.

Steward, Jerry H., to Multifastener Corp. Variable strength magnetic nut feeder. 3,334,724, 8–8–67, Cl. 198—41.

Steward, William A. Work control and scheduling device. 3,359,666, 12–26–67, Cl. 40—32.

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Stewart, Alexander, and K. A. Basford, to Rolls-Royce Ltd. Power plants. 3,310,936, 3–28–67, Cl. 60—39.14.

Stewart, Alexander, R. A. Cresswell, and M. H. Bryan-Brown, to Rolls-Royce Ltd. Mounting arrangement for lift engines. 3,327,971, 6–27–67, Cl. 244—54.

Stewart, Alfred W., to Datron Systems, Inc. Tabulating card feed. 3,360,259, 12–26–67, Cl. 271—41.

Stewart, Aubrey P., Jr., to Nodaway Valley Foods, Inc. Process for producing aseptically canned milk. 3,340,072, 9–5–67, Cl. 99—212.

Stewart, Aubrey P., Jr., to Nodaway Valley Foods, Inc. Process for stabilizing sterilized milk. 3,348,955, 10–24–67, Cl. 99—151.

Stewart, Bruce E., and J. B. Lyman, to Whirlpool Corp. Water level control. 3,331,374, 7–18–67, Cl. 134—56.

Stewart, Charles R., Jr., to Eli Lilly and Co. Protective sleeve for bagged products. 3,331,501, 7–18–67, Cl. 206—65.

Stewart, Charles W. Meter bar. 3,296,859, 1–10–67, Cl. 73—201.

Stewart, Clare A., Jr., to E. I. du Pont de Nemours and Co. Reaction product of an isocyanate-terminated polyurethane and an ammonia formaldehyde condensate and process of preparing same. 3,355,431, 11–28–67, Cl. 260—72.

Stewart, David C., Sr. Tobacco elevators. 3,344,889, 10–3–67, Cl. 187—9.

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Gasson, Edward J., and Stewart. 3,309,325.

Stewart, Dillard W. Torque transmitting employing for irrigation wheel. 3,312,286, 4–4–67, Cl. 137—344.

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Stewart, Duncan J., E. D. Lilja, and L. B. Slichter, to United States of America, Navy. Submarine attack director. 3,300,860, 1–31–67, Cl. 33—1.

Stewart, Edgar R. Shopping bag cover and carrier. 3,301,453, 1–31–67, Cl. 224—49.

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Stewart, Edward C., to Lyon Metal Products, Inc. Color insert plate. 3,338,649, 8–29–67, Cl. 312—204.

Stewart, Edward R. Brake-drive assembly for miniature racing cars. 3,350,953, 11–7–67, Cl. 74—411.5.

Stewart, Ernest R.: *See*—
Bagwell, Charles C., Jr., and Stewart. 3,307,801.

Stewart, Faye H. Load lifting and transport system and method. 3,359,919, 12–26–67, Cl. 104—22.

Stewart, Florentine U. Frozen bread package. 3,330,671, 7–11–67, Cl. 99—172.

Stewart, Francis M., III. Combination fishing lure and hook guard. 3,352,051, 11–14–67, Cl. 43—42.1.

Stewart, Frederick G., and W. W. Simpson. Air hose mounting support. 3,344,935, 10–3–67, Cl. 213—1.

Stewart, George M.: *See*—
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Stewart, Gerald E. Razor sharpener. 3,295,397, 1–3–67, Cl. 76—81.7.

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Stewart, Harold P. and H. A. 3,332,163.

Stewart, Harold P. and H. A. Fishing tackle. 3,332,163, 7–25–67, Cl. 43—44.86.

Stewart, Harry D. Process of measuring pills. 3,347,324, 10–17–67, Cl. 177—1.

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Genauer, Larry, Stewart, and Essigmann. 3,333,823.

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Stewart, Horace M., to Phillips Petroleum Co. Process and apparatus for handling off-specification helium. 3,333,435, 8–1–67, Cl. 62—23.

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Sigety, Julius B., Arnold, Stewart, and Harbin. 3,327,839.

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Stewart, James R., to United Shoe Machinery Corp. Automatic transfer devices. 3,337,021, 8–22–67, Cl. 198—31.

Stewart, James U. Liquid dispensing container with bellows. 3,341,083, 9–12–67, Cl. 222—209.

Stewart, Jefferson E. Key chain tag holder. 3,314,548, 4–18–67, Cl. 211—13.

Stewart, John, to Babcock & Wilcox, Ltd. Ultrasonic examination apparatus. 3,326,037, 6–20–67, Cl. 73—67.8.

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Sprague, Robert H., Stewart, and Lewis. 3,342,602.
Sprague, Robert H., Stewart, and Lewis. 3,342,604.
Sprague, Robert H., Stewart, and Lewis. 3,351,467.

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Stewart, John K. Externally engaging lifting jack frame. 3,299,833, 1–24–67, Cl. 104—7.

Stewart, John K., to Canada Iron Foundries Ltd. Track levelling device. 3,312,179, 4–4–67, Cl. 104—7.

Stewart, John K., to Canada Iron Foundries, Ltd. Railway track tamping apparatus. 3,343,497, 9–26–67, Cl. 104—12.

Stewart, John K., and H. R. E. Von Beckmann. High frequency surveying device. 3,298,105, 1–17–67, Cl. 33—60.

Stewart, John K., and D. T. Macris. Spike driver. 3,330,220, 7–11–67, Cl. 104—17.

Stewart, John L., to Santa Rita Technology, Inc. Sound analyzing system. 3,325,597, 6–13–67, Cl. 179—1.

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Stiles, Alvin B., to E. I. du Pont de Nemours and Co. Catalyst aggregates of crystallites. 3,317,439, 5–2–67, Cl. 252—455.

Stiles, Alvin B., to E. I. du Pont de Nemours and Co. Methanol oxidation over silver-cadmium alloy. 3,334,143, 8–1–67, Cl. 260—603.

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Stilla, John E., and W. H. Greenwald, to Stellar Industrial Products Co. Dummy pin means and method for assembling needle bearings. 3,345,723, 10–10–67, Cl. 29—148.4.

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Stillebroer, Cornelis R., to Shell Oil Co. Inlet piece for a centrifugal pump. 3,323,465, 6–6–67, Cl. 103—113.

Stiller, Leonard A., to Lasco Industries, Inc. Salt water ice making machine. 3,309,891, 3–21–67, Cl. 62—323.

Stiller, Leonard A., to Lasco Industries, Inc. Salt water ice making machine. 3,310,958, 3–28–67, Cl. 62—348.

Stilley, Herschel H., and K. S. Kordik, to Warner Electric Brake & Clutch Co. Variable speed A.-C. motor control. 3,340,450, 9–5–67, Cl. 318—214.

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Stilmar, Frederic B., to E. I. du Pont de Nemours and Co. Vinylidene fluoride interpolymers. 3,318,850, 5–9–67, Cl. 260—78.5.

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Barr, John D., Reason, and Stillwell. 3,307,267.
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Stillwell, Peter F. T. C., and P. J. Greaves, to The Rank Organisation Ltd. Test scoring machine. 3,315,377, 4–25–67, Cl. 35—48.

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Stilwell, Jack E., to Pitman Mfg. Co. Aerial platform hydraulic control mechanism having override linkage. 3,360,076, 12–26–67, Cl. 182—148.

Stilwell, Robert E., to FMC Corp. Flow timing device. 3,315,701, 4–25–67, Cl. 137—624.18.

Stilwell, William E., Jr., deceased (by F. H. Stilwell, executrix). Combined self-heating washer-driers and control apparatus therefor. 3,347,065, 10–17–67, Cl. 68—12.

Stilz, Walter, H. Pommer, H. Biczysko, and H. Fessmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Stabilized linear polyamides with Schiff's base. 3,321,436, 5–23–67, Cl. 260—458.

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Stimler, Morton, to United States of America, Navy. Toroidal magnetic cores having varying cross-sectional areas. 3,303,449, 2–7–67, Cl. 336—213.

Stimler, Morton. System for phase (frequency) modulation of an RF carrier for low frequency signal. 3,328,712, 6–27–67, Cl. 330—10.

Stimler, Morton, and R. E. Grantham, to United States of America, Navy. Output energy indicating optical maser. 3,307,448, 3–7–67, Cl. 88—23.

Stimmerman, Robert H. Boring tool holder for drilling and reaming operations. 3,359,008, 12–19–67, Cl. 279—16.

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Stine, Herbert G.: *See*—
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Stine, Robert M., and H. F. Roland, to United States of America, Air Force. Doppler method and system for measuring miss distance. 3,350,712, 10–31–67, Cl. 343—12.

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Stinn, Dorothea J., J. P. Burke, and T. C. Skonberg. Paramagnetic boards and attachments. 3,339,297, 9–5–67, Cl. 35—73.

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Stinson, Richard W., to Western Electric Co., Inc. Signal limits detector. 3,351,927, 11–7–67, Cl. 340—248.

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Stirling, Harold T., to Stirling Sintering Co. Reclamation of material. 3,326,669, 6–20–67, Cl. 75—5.

Stirling, Harold T. Reciprocating feeder and moving and grate. 3,342,467, 9–19–67, Cl. 263—6.

Stirling, Leo M. Ventilating apparatus. 3,349,998, 10–31–67, Cl. 230—114.

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Stiteler, Ellwood C. Ladle valve arrangement with stationary plug and slidable nozzle. 3,310,851, 3–28–67, Cl. 22—85.

Stites, Francis H., to Sylvania Electric Products Inc. Electro-optical label reading system using pulse width detection circuit. 3,299,271, 1–17–67, Cl. 250—219.

Stith, Robert C. Expansible chair. 3,316,018, 4–25–67, Cl. 297—440.

Stitt, Robert I., to SMC Corp. Mechanical connection. 3,352,343, 11–14–67, Cl. 151—31.

Stivers, Edward C., to Raychem Corp. Flame retardant systems and compositions. 3,340,226, 9–5–67, Cl. 260—45.75.

Stivers, Edward C., to Raychem Corp. Aluminum tetrabromophthalate. 3,354,191, 11–21–67, Cl. 260—448.

Stiward, Rune I. Hydraulic brake system with improved filler cap. 3,296,396, 1–3–67, Cl. 200—84.

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Stocchi, Virgilio, A. Magelli, and G. Baisero, to Montecatini Edison S.p.A. Process for the purification of raw cracked gases containing acetylene. 3,349,545, 10–31–67, Cl. 55—65.

Stocchi, Virgilio, A. Ferin, and A. Magelli, to Montecatini Edison S.p.A. Process for the depuration of acetylene contained in the gases obtained by cracking of hydrocarbons. 3,350,473, 10–31–67, Cl. 260—679.

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Stock, August, to Moore Dry Kiln Co. Dryer for sheet material. 3,324,571, 6–13–67, Cl. 34—160.

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Stock, Hans J.: *See*—
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Stock, Hans J., to Franz Morat G.m.b.H. Arrangement for synchronizing program controlled machine operations with machine movements. 3,313,129, 4–11–67, Cl. 66—154.

Stock, Howard P.: *See*—
Pettit, Dorn L., and Stock. 3,354,356.

Stock, Ronald N.: *See*—
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Stewart, Katherine F., to Stewart Operations, Inc. Treating the bark of trees to prevent insect damage by tree bark beetles and insects. 3,298,913, 1–17–67, Cl. 167—42.

Stewart, Lawrence L., Jr., to Philip Morris, Inc. Process for the production of electrets. 3,316,620, 5–2–67, Cl. 29—155.5.

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Kehl, William L., and Stewart. 3,328,122.

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Stewart, Neil R., to Radio Corp. of America. Lamp driver circuits. 3,346,770, 10–10–67, Cl. 315—194.

Stewart, Norman R.: *See*—
Zandon, Victor A., Klein, and Stewart. 3,333,920.

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Stewart, Richard P., to Omstell Industries, Inc. Moldboard wing. 3,348,322, 10–24–67, Cl. 37—155.

Stewart, Robert F., to United States of America, Interior. Apparatus and process for continuous measurement of moisture in moving coal by neutron thermalization. 3,353,021, 11–14–67, Cl. 250—83.1.

Stewart, Ross E., to Clevite Corp. Vibration isolating mount. 3,330,522, 7–11–67, Cl. 248—358.

Stewart, Ross E., and R. T. Drake, to Clevite Corp. Corrugated resilient mount. 3,350,042, 10–31–67, Cl. 248—22.

Stewart, Russell T. and William D. Stereoscopic picture camera and lenticular screen assembly therefor. 3,301,154, 1–31–67, Cl. 95—18.

Stewart, Sid G. Map holder. 3,328,899, 7–4–67, Cl. 35—40.

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Stewart, Vernon G., to Mission Mfg. Co. Percussion bit. 3,357,507, 12–12–67, Cl. 175—410.

Stewart, Walter N., to United States of America, Army. Drop and spin test apparatus. 3,329,014, 7–4–67, Cl. 73—167.

Stewart, Walter W., and F. E. Timmons. Thermoplastic film packaging apparatus. 3,295,295, 1–3–67, Cl. 53—390.

Stewart-Warner Corp.: *See*—
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Stewart, William M. Oscillator trigger circuit including unidirectional conducting device in the feedback path thereof. 3,310,754, 3–21–67, Cl. 331—112.

Stewart, William R.: *See*—
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Stewart, William S., and W. E. Barr, to Phillips Petroleum Co. Control system for maximum heat utilization in process for fluid catalytic decomposition conversion of hydrocarbons. 3,316,170, 4–25–67, Cl. 208—164.

Stewart, William T.: *See*—
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Stewart, Willis L., J. P. K. Greene, and G. S. Elston, to H & G Industries, Inc. Shingle brush. 3,346,900, 10–17–67, Cl. 15—160.

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Stewing, Albert, and S. Polonyi, to E. Polonyi (nee Fremersdorf), G. Stewing (nee Haseke), and P. Stewing. Roof structure of concrete blocks having wave-shaped passages containing stressed reinforcing. 3,319,387, 5–16–67, Cl. 52—227.

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Steyermark, Paul R., to W. R. Grace & Co. Hydrazinium xanthates and method for their preparation. 3,312,693, 4–4–67, Cl. 260—247.1.

Steyermark, Paul R., to W. R. Grace & Co. Isocyanate modification of an oxidized polyolefin which has been treated with a hydrazinium compound. 3,321,446, 5–23–67, Cl. 260—77.5.

Stickelber, Merlin A., to Marion Corp. Continuous dough mixer. 3,332,368, 7–25–67, Cl. 107—36.

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Stickney, Herbert F., to American Optical Co. Welder's mask. 3,327,318, 6–27–67, Cl. 2—8.

Stickney, Truman M.: *See*—
Anderson, Arthur R., Stickney, and Gordon. 3,308,666.

Stiefel, Ludwig, to United States of America, Army. Thermal stability test apparatus for combustible fluids. 3,314,282, 4–18–67, Cl. 73—35.

Stiefel, Rudy C. Data listing device. 3,299,556, 1–24–67, Cl. 40—124.

Stiefvater, Gerhard W., and R. Y. H. Bremner; said Bremner assor. to said Stiefvater. Vehicle brake structure. 3,327,005, 8–22–67, Cl. 188—2.

Stieg, Bernard O.: *See*—
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Stieger, Karl. Shoe-cleaning appliance. 3,308,499, 3–14–67, Cl. 15—36.

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Stiehl, Karl, and K. Oberlander, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Method of producing air permeable sheet material. 3,307,961, 3–7–67, Cl. 117—4.

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Stier, Otto, to Vollmer Werke Maschinenfabrik G.m.b.H. Process and apparatus for sharpening the teeth of saw blades. 3,308,688, 3–14–67, Cl. 76—43.

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Strauss, Theodor, and W. Buchmann, to Westinghouse-Bremsen-Gesellschaft, m.b.H. Pressure differential responsive valve means. 3,340,898, 9–12–67, Cl. 137—627.5.

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Straw, Eldred G., to Walker Mfg. Co. Muffler. 3,329,287, 7–4–67, Cl. 181—48.

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Streed, Carl W., to Mobil Oil Corp. Jet fuel production. 3,328,-289, 6–27–67, Cl. 208—89.

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Stripp, Peter W., to Tecalemit (Engineering) Ltd. Fluid filters. 3,344,929, 10–3–67, Cl. 210—510.

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Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. Chlorinated naphthotriazole brighteners for polyalkylene fibers and plastics. 3,316,180, 4–25–67, Cl. 252—301.2.

Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. α-alkenylbenzylidene malononitriles. 3,336,357, 8–15–67, Cl. 260—465.

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Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. Naphtho (1,2)triazole brighteners for fine fabrics. 3,341,530, 9–12–67, Cl. 260—240.

Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. 4,4'-Bis [(4-N-2-sulfoethylamino)-6-sulfophenoxy - S - triazin - 2 - ylamino] - 2,2'-stilbenedisulfonic acid brighteners. 3,350,395, 10–31–67, Cl. 260—240.

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Strobel, Charles W., to Phillips Petroleum Co. Reducing cold flow of diene polymers. 3,349,071, 10–24–67, Cl. 260—94.7.

Strobel, Charles W., to Phillips Petroleum Co. Process for the prevention of cold flow in polybutadiene. 3,350,380, 10–31–67, Cl. 260—94.7.

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Stuchbery, Arthur L., to The Metal Box Co. Ltd. Scoring of thin sheet metal. 3,359,773, 12–26–67, Cl. 72—325.

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Sutherland, James F., and T. D. Rubner, to Westinghouse Electric Corp. Switching circuitry for semiconductive controlled rectifiers. 3,309,535, 3–14–67, Cl. 307—88.5.
Sutherland, James F., F. D. Plociennik, and S. Schmandrak, to Westinghouse Electric Corp. Thermal junction reference cabinet. 3,345,540, 10–3–67, Cl. 317—99.
Sutherland, James R., to Viking Corp. Guard finger and ledger plate. 3,296,783, 1–10–67, Cl. 56—311.
Sutherland, John C., to Taylor & Gaskin, Inc. Conveyor trolley. 3,353,499, 11–21–67, Cl. 104—172.
Sutherland, John D., Jr., to Copolymer Rubber & Chemical Corp. Agglomeration of synthetic rubber latex. 3,296,178, 1–3–67, Cl. 260—29.7.
Sutherland, John D., Jr., to Copolymer Rubber & Chemical Corp. Method of preparing improved latex and rubber articles, and the products thus prepared. 3,346,518, 10–10–67, Cl. 260—2.5.
Sutherland, Sinclair N.: *See*—
Ostrander, Walter M., and Sutherland. 3,358,251.
Sutherland, Spurgeon. Recording clocks. 3,342,956, 9–19–67, Cl. 200—38
Sutherland, William D., A. V. Waters, and B. J. Kendall, to Joseph Lucas (Industries) Ltd. Control means for vehicle head lamps to energize low beam when head lamps switch is closed. 3,303,382, 2–7–67, Cl. 315—83.
Sutliff-Downen, Inc.: *See*—
Sutliff, Wayne N. 3,295,607.
Sutliff, John D.: *See*—
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Sutliff, Wayne N. and M. W. 3,352,359.
Sutliff, Wayne N., ½ to Sutliff-Downen, Inc., and ½ to Cook Testing Co. Testing tool. 3,295,607, 1–3–67, Cl. 166—226.
Sutliff, Wayne N. and M. W., to St. Louis Janitor Supply Co., d.b.a., Navy Brand Mfg. Co. Apparatus for steam treating a deep well. 3,352,359, 11–14–67, Cl. 166—53.
Suto, Paul A., to United Aircraft Corp. Axonometric drawing guide. 3,358,916, 12–19–67, Cl. 235—89.
Sutor, Alois T., T. E. Cowell, and R. S. Kraemer, to North American Aviation, Inc. Horizontal flow thrust chamber. 3,312,068, 4–4–67, Cl. 60—258.
Sutowski, Walter S. Components for ball bearing assemblies and method of making the assemblies. 3,317,986, 5–9–67, Cl. 29—148.4.
Sutowski, Walter S. Bearing unit and method of assembly. 3,318,645, 5–9–67, Cl. 308—196.
Sutowski, Walter S. Process for assembling ball bearing devices. 3,337,937, 8–29–67, Cl. 29—148.4.
Sutphin, Eldon M.: *See*—
Nelson, Elwood E., Peterson, and Sutphin. 3,310,593.
Peterson, Rodney E., and Sutphin. 3,310,594.
Sutphin, Richard A., to The Procter & Gamble Co. Relieved skirted die. 3,357,072, 12–12–67, Cl. 25—7.
Sutryn, Edmund M. Floating insect fish bait. 3,323,248, 6–6–67, Cl. 43—42.37.
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Sutton, Charles K. Selective control of frequency and voltage in alternating current power systems. 3,333,177, 7–25–67, Cl. 321—2.
Sutton, David R., R. B. Lawrance, and D. B. Ayres, to Honeywell Inc. Special code tape reading system. 3,304,542, 2–14–67, Cl. 340—172.5.
Sutton, Earl E., to Dominion Electric Corp. Toaster. 3,347,153, 10–17–67, Cl. 99—337.
Sutton, Earl E., and T. M. Brain, to Dominion Electric Corp. Food cooking device. 3,358,584, 12–19–67, Cl. 99—329.

Sutton, Gerald W., to Everyday Mfg. Co. Gate for poultry trough. 3,298,356, 1–17–67, Cl. 119—74.

Sutton, John A., and M. W. Miller. Sinker release. 3,335,516, 8–15–67, Cl. 43—43.12.

Sutton, Joseph A., and J. D. Corrick, to United States of America, Interior. Biochemical method of producing electricity. 3,336,161, 8–15–67, Cl. 136—86.

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Sutton, Robert S. Digital electronic speed control governor utilizing pulse width comparison. 3,346,771, 10–10–67, Cl. 317—5.

Sutton, Robert W., to The Bendix Corp. Automatic choke. 3,315,949, 4–25–67, Cl. 261—39.

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Sutton, William J., and R. M. Lauck, to Stauffer Chemical Co. Color and fermentation stabilization of fresh fruits. 3,305,366, 2–21–67, Cl. 99—154.

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Kurtz, Leonard D. 3,322,125.

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Suzuki, Eiji. Operating mechanism for an alternate pulling type control transmission device employing a pair of flexible wires. 3,332,294, 7–25–67, Cl. 74—89.22.

Suzuki, Fumio: *See—*
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Suzuki, Minoru, and N. Uno, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic light responsive shutter timing mechanism. 3,349,678, 10–31–67, Cl. 95—10.

Suzuki, Mitsuyuki, and E. Yoshida, to Kabushiki Kaiska Kobayashi Kikai Seisakusho. Continuous vacuum drying apparatus for cloth and associated method. 3,355,813, 12–5–67, Cl. 34—16.

Suzuki, Motoyoshi, ¼ each to Aisin Seiki Co., Ltd., and Silver Knitting Machine Co., Ltd. Needle selector for a hand knitting machine. 3,358,473, 12–19–67, Cl. 66—60.

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Suzuki, Noboru, and T. Yoshino, to Shimizu Suisan Kabushiki Kaisha, Hydraulic division of fruits. 3,351,113, 11–7–67, Cl. 146—230.

Suzuki, Nobuo. Exposure-control system for photographic cameras and the like. 3,353,462, 11–21–67, Cl. 95—10.

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Suzuki, Shigeto, to Chevron Research Co. Separation of metaxylene-paraxylene mixtures by extractive distillation. 3,356,593, 12–5–67, Cl. 203—29.

Suzuki, Shigeto, to Chevron Research Co. Chloromethyl ether process. 3,356,735, 12–5–67, Cl. 260—611.

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Suzuki, Tuneo, and K. Nakamura, to Showa Denko Kabushiki Kaisha. Liquid products mixing apparatus. 3,334,884, 8–8–67, Cl. 266—34.

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Svatý, Vladimir, and V. Bartošek, to Elitex, Sdruzeni Podniku Textiliniho Strojirenstvi. Shuttle receiving and picking apparatus for gripper shuttle looms. 3,330,305, 7–11–67, Cl. 139—125.

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Svendsen, Konrad S., to Combustion Engineering, Inc. Support for roof tubes of a fluid heater. 3,301,226, 1–31–67, Cl. 122—510.

Svendsen, Konrad S., to Combustion Engineering, Inc. Drum rocking support for carrying heavy loads. 3,312,199, 4–4–67, Cl. 122—510.

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Swain, Ernest. Removable tile and fastener assembly. 3,303,624, 2–14–67, Cl. 52—496.

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Swan, William S. Coffee dispenser with built-in grinder. 3,327,615, 6–27–67, Cl. 99—286.

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Szabo, Louis J., and E. R. Scott, to General Electric Co. Suction cleaner having improved handle and filter bag mounting. 3,334,372, 8–8–67, Cl. 15—351.
Szabo, Marton, to Philadelphia Handle Co., Inc. Collapsible self-returning handle with hideaway linkage. 3,340,970, 9–12–67, Cl. 190—58.
Szabo, Marton, to Philadelphia Handle Co., Inc. Molded plastic handle with hideaway linkage. 3,340,971, 9–12–67, Cl. 190—58.
Szabo, Stephen. Power vessels. 3,347,201, 10–17–67, Cl. 114—235.
Szabo, Tibor, to Industrie-Werke Karlsruhe Aktiengesellschaft. Apparatus for handling container blanks. 3,298,289, 1–17–67, Cl. 93—53.
Szacsko, Lajos. Shelf systems. 3,358,621, 12–19–67, Cl. 108—92.
Szaj, Raymond R.: *See*—
Park, Glenn S., and Szaj. 3,297,180.
Szajna, John L., to Continental Can Co., Inc. Dispensing container. 3,306,493, 2–28–67, Cl. 221—64.
Szajner, Tadeusz T., and J. B. Swetka, to General Motors Corp. Vehicle brake cable tensioning and releasing mechanism. 3,302,482, 2–7–67, Cl. 74—517.
Szarvasi, Etienne, to Lipha, Lyonnaise Industrielle Pharmaceutique. Carboxylic acids substituted in the alpha-position by at least one aminohtero cyclic, and processes for the preparation thereof. 3,334,105, 8–1–67, Cl. 260—294.
Szarvasi, Etienne, and M. Bayssat, to Lipha, Lyonnaise Industrielle Pharmaceutique. Acid salts of tertiaryaminoethyl β-(1-naphthyl)-β-(2-tetrahydrofuryl) isobutyrates. 3,334,096, 8–1–67, Cl. 260—247.2.
Szarvasi, Etienne, and M. Bayssat, to Lipha, Lyonnaise Industrielle Pharmaceutique. Tertiary aminoethyl [beta-(naphthyl)-beta-tetrahydrofuryl isobutane] and alpha lower alkenyl ethers. 3,347,858, 10–17–67, Cl. 260—247.7.
Szawlowski, Theodore H.: *See*—
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Kramer, Walter E., Joo, and Szawlowski. 3,326,860.

Szawlowski, Theodore H., to Union Oil Co. of California. Reaction product of a polyepoxy monomer and complex acids derived from solvent extracts of lubricating oils. 3,304,344, 2–14–67, Cl. 260—830.
Szawlowski, Theodore H., and W. E. Kramer, to Union Oil Co. of California. Process for the sequential reaction of a complex aromatic carboxylic acid, an epoxy monomer, and a linear polyamide. 3,313,861, 4–11–67, Cl. 260—830.
Szawlowski, Theodore H., and W. E. Kramer, to Union Oil Co. of California. Asphalt-epoxy resin compositions cured with acid amides of petroleum derived acids. 3,326,830, 6–20–67, Cl. 260—28.
Szawlowski, Theodore H., and R. C. Kimble, to Union Oil Co. of California. Recovery and fractionation of complex acids. 3,351,631, 11–7–67, Cl. 260—327.
Szczepanek, Alfred, to Chemische Fabrik Hoesch K.-G. Process for the production of lithium soaps of epoxidized fatty acids. 3,313,828, 4–11–67, Cl. 260—348.
Szczepanek, Alfred, and G. Koenen, to Firma Chemische Fabrik Hoesch K.-G. Liquid stabilizers for vinyl chloride resins comprising metal salts of epoxidized fatty acids. 3,297,584, 1–10–67, Cl. 252—400.
Szczepanek, Alfred, and G. Koenen, to Chemische Fabrik Hoesch K.-G. Liquid stabilizers for vinyl chloride resins comprising metal salts of epoxidized fatty acids. 3,298,964, 1–17–67, Cl. 252—400.
Szczepanek, Alfred, and M., to Chemische Fabrik Hoesch K.G. Vinyl polymer with basic complex lead compound. 3,312,647, 4–4–67, Cl. 260—23.
Szczepanek, Alfred, and G. Koenen, to Chemischke Fabrik Hoesch K.-G. Liquid stabilizers for vinyl chloride polymers comprising a lead salt dissolved in an alkyl phenol. 3,317,436, 5–2–67, Cl. 252—400.
Szczepanek, Alfred, and G. Koenen, to Chemische Fabrik Hoesch K.G. Process for the preparation of dibasic lead salts of inorganic acids. 3,323,859, 6–6–67, Cl. 23—69.
Szczepanek, Margarete: *See*—
Szczepanek, Alfred, and M. 3,312,647.
Szczepanik, John A., to Dorr-Oliver Inc. Pallet trailer having a toggle-operated platform tiltable about one or more axes. 3,319,932, 5–16–67, Cl. 254—9.
Szczepanski, Harry. Filter system for a paint-spraying machine. 3,320,927, 5–23–67, Cl. 118—326.
Szczesniak, Alina S., and E. Engel, to General Foods Corp. Low calorie cream-type salad dressing. 3,300,318, 1–24–67, Cl. 99—144.
Szczur, Albert, Jr.: *See*—
Parsi, Edgardo J., Kirkham, and Szczur. 3,325,389.
Sze, Morgan C.: *See*—
Lewis, John D., Sze, and Kohn. 3,354,905.
Sze, Simon M.: *See*—
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Szechtman, Joshua, to Amroc Inc. Apparatus for the rapid removal of brine from mercury cells. 3,360,453, 12–26–67, Cl. 204—219.
Szegho, Constantin S., to The Rauland Corp. Support assembly for a low-wattage cathode. 3,333,138, 7–25–67, Cl. 313—270.
Szego, Joseph. Safety container for explosive fluids. 3,356,256, 12–5–67, Cl. 220—88.
Szegvari, Andrew. Articles of wearing apparel. 3,298,034, 1–17–67, Cl. 2—168.
Szegvari, Andrew. Film for receiving, storing or controlling electric impulses. 3,298,896, 1–17–67, Cl. 161—164.
Szekely, George, to G. S. International Laboratory Corp. Aerosol apparatus for inhalation therapy. 3,302,374, 2–7–67, Cl. 55—226.
Szekely, George. Duster devices. 3,304,647, 2–21–67, Cl. 43—147.
Székely, Zoltán, to Bell Telephone Laboratories, Inc. Remote repeater distortion control by switching. 3,331,027, 7–11–67, Cl. 328—164.
Szel, Frank, to The Yoder Co. Tube cut-off mechanism. 3,298,213, 1–17–67, Cl. 72—186.
Szelwach, Stanley. Multiple cavity foam molding apparatus. 3,330,005, 7–11–67, Cl. 18—42.
Szente, Pedro A., to United States of America, Atomic Energy Commission. Uniformly tapered transition mandrel. 3,354,695, 11–28–67, Cl. 72—476.
Szent-Györgyi, Albert, A. F. Hegyeli, and J. A. McLaughlin, to United States of America, Secretary of Health. Biologically active animal extracts. 3,297,533, 1–10–67, Cl. 167—78.
Szentmiklosi, Peter: *See*—
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Szepesi, Zoltan P. J., to Westinghouse Electric Corp. Solid state display device for amplifying or converting input radiation including a field emissive layer. 3,339,075, 8–29–67, Cl. 250—213.
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Szeremy, Norman, to General Electric Co. Dynamically regulated clipper system for a television receiver which is operative over a wide range of video signal amplitude. 3,341,656, 9–12–67, Cl. 178—7.3.
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Szerenyi, Andrew, to Ro-Search, Inc. Footwear. 3,314,173, 4–18–67, Cl. 36—2.5.
Szerenyi, Andrew, and A. Liebscher, to Ro-Search, Inc. Antiskid soles. 3,295,230, 1–3–67, Cl. 36—59.
Szerlip, Alexander, to Hughes Aircraft Co. Frequency diversity radar ranging system. 3,324,469, 6–6–67, Cl. 343—17.2.
Szilagyi, Istvan. Spark plugs of the preigniting chamber type. 3,331,976, 7–18–67, Cl. 313—11.5.
Szmuszkovicz, Jacob, to The Upjohn Co. Method of treating mental depression. 3,296,072, 1–3–67, Cl. 167—65.
Szmuszkovicz, Jacob, to The Upjohn Co. Novel pyridoindoles. 3,301,867, 1–31–67, Cl. 260—296.
Szmuszkovicz, Jacob, to The Upjohn Co. 2-(p-alkoxyphenyl)-3-substituted indoles. 3,352,856, 11–14–67, Cl. 260—240.
Szmuszkovicz, Joseph: *See*—
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Szobel, Laszlo, and L. Parvi, to Societe d'Electro Chimie d'Electro Metallurgie. Novel rigid and self-extinguishing polyurethane foams and process for preparation of same. 3,297,594, 1–10–67, Cl. 260—2.5.
Szobel, Laszlo, and L. Parvi, to Societe d'Electro-Chimie d'Electro Metallurgie et des Acieries Electriques d'Ugine. Novel self-extinguishing polyesters prepared from polyols of perchlorinated diaminodiphenyls. 3,303,240, 2–7–67, Cl. 260—869.
Szobel, Laszlo, and L. Parvi, to Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieres Electriques d'Ugine. Diamino-polychlorodiphenyl compounds. 3,308,158, 3–7–67, Cl. 260—570.5.
Szobel, Laszlo, and L. Parvi, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Resinous products based on epoxy resins and halogenated amines and method for preparation of same. 3,359,216, 12–19–67, Cl. 260—2.
Szodfridt, Emmerich, to Firma Dr. Ing. h.c.F. Porsche KG. Transmission control system. 3,324,745, 6–13–67, Cl. 74—752.
Szodfridt, Emmerich, and H. Radbauer, to Firma Dr.-Ing. h.c.F Porsche KG. Automatic control system for change-speed gears. 3,313,173, 4–11–67, Cl. 74—472.
Szohatzky, Zolton, to Crawford Fitting Co. Tube coupling. 3,339,949, 9–5–67, Cl. 285—342.
Szonn, Reinhold E., to Cellasto Inc. Bonding of an elastic shock absorber with a rigid base plate. 3,343,770, 9–26–67, Cl. 248—22.
Szonntagh, Eugene L., to Leeds & Northrup Co. Fluid analyzing systems. 3,324,709, 6–13–67, Cl. 73—23.1.
Szostak, Jan, to The Singer Co. Buttonhole mechanisms for zigzag sewing machines. 3,306,242, 2–28–67, Cl. 112—158.
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Szpytman, Jack J. Parking garage for depressed roadways. 3,319,385, 5–16–67, Cl. 52—169.
Szücs, Laszlo G. Surgical dressing. 3,322,119, 5–30–67, Cl. 128—156.
Szumski, Stephen A., to American Cyanamid Co. Streptomyces aureofaciens fermentation process using glyceride oil and casein. 3,317,403, 5–2–67, Cl. 195—80.
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Szwadowski, Frank A. Machine tool fixtures. 3,295,414, 1–3–67, Cl. 90—11.
Szwargulski, Alex N., to ACF Industries, Inc. Carburetor. 3,317,183, 5–2–67, Cl. 251—120.
Szwargulski, Jesse L., and R. G. Hennemann, to ACF Industries, Inc. Carburetor. 3,342,465, 9–19–67, Cl. 261—52.
Szydlowski, Joseph. Gas turbines and applications thereof. 3,299,631, 1–24–67, Cl. 60—39.28.
Szydlowski, Joseph. Turbine engine regulating equipment. 3,299,962, 1–24–67, Cl. 170—135.74.
Szydlowski, Joseph. Annular combustion chambers for gas turbine engines. 3,304,713, 2–21–67, Cl. 60—39.65.
Szymanski, Damon. Suspended dumping feed distributer apparatus. 3,342,165, 9–19–67, Cl. 119—56.
Szymanski, Joseph A.: *See*—
Hobbs, Richard W., Matthews, and Szymanski. 3,330,210.
Szymanski, Ronald. Fog lens attachments for vehicle headlights. 3,350,557, 10–31–67, Cl. 240—46.57.
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Cook, Errol F., and Szymanski. 3,296,149.
Szymanski, Walter A., R. E. Robinson, and R. C. Talbot, to Hooker Chemical Corp. Bituminous polyester halogen containing resin composition. 3,360,490, 12–26–67, Cl. 260—28.5.
Szymber, Oleg, to Sawyer's, Inc. Stand or the like. 3,315,621, 4–25–67, Cl. 108—34.
Szymber, Oleg, to General Aniline & Film Corp. Thermally responsive member with longitudinally spaced contacts each actuated upon bending of the member in one direction. 3,342,963, 9–19–67, Cl. 200—122.
Szymczak, Eugene B., and J. P. Wied, to Sunbeam Corp. Motor. 3,311,290, 3–28–67, Cl. 230—117.

Szypulski, Raymond W.: *See*—
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T-Bar Steel Silo Co., Inc.: *See*—
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TDK Electronics Co., Ltd.: *See*—
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THYS Co.: *See*—
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TOBA Industria Veneta Minuterie Metalliche Saremola di Rubano: *See*—
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TRW Inc.: *See*—
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Belanger, Robert J. 3,311,880.
Bule, James L. 3,320,485.
Clark, Hubert M., Drutchas, and Carlson. 3,314,495.
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Friedman, Burnam I., Martinez, and Jortner. 3,353,354.
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Giles, William S. 3,314,136.
Giles, William S. 3,338,228.
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Gregory, John W., Fetheroff, and Fuscoe. 3,300,341.
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Le Vantine, Allan D. 3,296,432.
Lord, Albert M., Fairweather, and Finello. 3,304,205.
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MacInnes, Hugh. 3,315,607.
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Mastrup, Frithjof N. 3,304,457.
McGilliard, Donald C. 3,323,490.
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Taban, Louis, Pancakes or the like pastry automatic making machine. 3,349,724, 10–31–67, Cl. 107—4.

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Tabbert, Richard W., to Oldberg Mfg. Co. Nut locking construction. 3,316,605, 5–2–67, Cl. 24—277.

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Eser, Walter J., Jr., Hale, Roe, and Taber. 3,337,224.

Taber, Robert C., and L. G. S. Brooker, to Eastman Kodak Co. Trinuclear dyes for photographic elements. 3,335,010, 8–8–67, Cl. 96—84.

Taber, Robert C., and L. G. S. Brooker, to Eastman Kodak Co. Sensitizing and filter dyes for photographic elements. 3,352,680, 11–14–67, Cl. 96—84.

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Tabibian, Richard M., to E. I. du Pont de Nemours and Co. Colloidally stable solvent cement compositions comprising chloroprene polymers, phenolic resins, and polyisocyanate. 3,318,834, 5–9–67, Cl. 260—31.2.

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Tabler, John M.: *See*—
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Tabor, John R. Tunneling machine with power operated poling plates. 3,306,055, 2–28–67, Cl. 61—85.

Tabor, Joseph A., to Russell, Burdsall & Ward Bolt and Nut Co. Prevailing-torque locknuts. 3,356,121, 12–5–67, Cl. 151—21.

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Tacchi, Percy G., to Slip International Ltd. Apparatus for mixing fluids at different temperatures. 3,356,101, 12–5–67, Cl. 137—114.

Taccone, Russell W., to Shahmoon Industries, Inc. Molten metal pouring mechanism including a relatively movable ladle and boot assembly. 3,358,887, 12–19–67, Cl. 222—166.

Tache, Arthur J., and R. M. Cage, to Chrysler Corp. Gray iron casting process and composition. 3,299,482, 1–24–67, Cl. 22—211.

Tachi, Sanji, and Y. Kuzusaka, said Kuzusaka assor. to said Tachi. Excavating method using prestressed loop girders. 3,306,049, 2–28–67, Cl. 61—41.

Tachibana, Koichi: *See*—
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Tack, Carl E., to Amsted Industries Inc. Snubbed bolster truck. 3,342,139, 9–19–67, Cl. 105—197.

Tack, Oscar F. Toss game simulating bowling. 3,306,615, 2–28–67, Cl. 273—95.

Tack, Serena. Foot wear protectors. 3,302,314, 2–7–67, Cl. 36—73.

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Tada Mfg. Co., Ltd.: *See*—
Tada, Eiji. 3,355,834.

Tada, Osamu, to Kabushikikaisha Yokogawa Denki Seisakusko (Yokogawa Electric Works Ltd.). Analog-to-digital conversion system. 3,345,630, 10–3–67, Cl. 340—347.

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Tado, Hiroshi, to Yanmar Diesel Engine Co., Ltd. Sealing device for rotary piston engines. 3,301,231, 1–31–67, Cl. 123—8.

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Taeschler, Eduard. Flexible-tubing stethoscope. 3,302,747, 2–7–67, Cl. 181—24.

Taesler, Rudolf, D. Becker, and G. Borner, to Leiss Ikon Aktiengesellschaft. Film end securing device particularly for miniature film. 3,351,298, 11–7–67, Cl. 242—74.1.

Tafler, George E., to Electric Reduction Co. of Canada, Ltd. Process for the manufacture of alkali metal tripoly phosphates having desirable characteristics. 3,356,447, 12–5–67, Cl. 23—106.

Taft, David D., to Archer-Daniels-Midland Co. Two step polymerization of tetrapolymer. 3,297,621, 1–10–67, Cl. 260—29.6.

Taft, Donald R.: *See*—
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Talbot, Yorck J. External rear-view mirror for vehicles. 3,350,048, 10–31–67, Cl. 248—481.

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Tamada, Kazumi, to Howa Sandyo Kabushiki Kaisha Nagoya-shi. Absorption type refrigerator. 3,309,895, 3–21–67, Cl. 62—475.

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Tanaka, Katsunobu, K. Oshima, and K. Takayama, to Kyowa Hakko Kogyo Co., Ltd. Fermentative method for the production of L-glutamic acid. 3,335,065, 8–8–67, Cl. 195—30.

Tanaka, Katsunobu, K. Kimura, and K. Yamaguchi, to Kyowa Hakko Kogyo Co., Ltd. Method of producing L-glutamic acid. 3,359,178, 12–19–67, Cl. 195—28.

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Tanaka, Kazumitsu, to Nihon Denshi Kabushiki Kaisha. Method and apparatus for treating material with a charged beam. 3,351,731, 11–7–67, Cl. 219—69.

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Tanaka, Sanae, K. Yokoyama, and M. Takashima, to Mitsubishi Petrochemical Co. Ltd. Stabilized polyolefin containing a quinoxaline derivative or a metal salt thereof. 3,325,448, 6–13–67, Cl. 260—45.75.

Tanaka, Sanae, K. Yokoyama, and A. Seki, to Mitsubishi Petrochemical Co. Ltd. Process for the manufacture of liquid heavy aromatic hydrocarbon-formaldehyde resins and their cured resins. 3,347,952, 10–17–67, Cl. 260—838.

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Tanaka, Takashi, M. Sakata, H. Hirota, and Y. Yanaginti, to Matsushita Electric Industrial Co., Ltd. Variable magnestostrictive inductance devices. 3,299,382, 1–17–67, Cl. 336—20.

Tanaka, Tomiyuki, to Victor Co. of Japan Ltd. Frequency modulation system. 3,300,736, 1–24–67, Cl. 332—30.

Tanaka, Yukio, to Kokusai Denki Kabushiki Kaisha (known as Kobusi Electric Co., Ltd.). Process for treatment of surfaces of iron and steel. 3,336,167, 8–15–67, Cl. 148—16.5.

Tanaka, Yukio, A. Furusawa, and K. Isobe, to Kokusai Denki Kabushiki Kaisha. Sulphurizing treatment of iron and steel. 3,332,809, 7–25–67, Cl. 148—6.35.

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Tanaka, Yutaka, and K. Sasabe, to Matsushita Electric Industrial Co., Ltd. Variable synchronous motors which rotate at a self-determined rotational speed. 3,302,083, 1–31–67, Cl. 318—138.

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Tanguy, Denis R., to Schlumberger Technology Corp. Methods and systems for recording and processing well logging data. 3,329,931, 7–4–67, Cl. 340—18.

Tanguy, Lewis L., Jr., and A. G. Barnett, to Burroughs Corp. Head-to-disk separation detector. 3,329,943, 7–4–67, Cl. 340—174.1.

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Taniguchi, Kanji, M. Asada, and R. Sakimoto, to Nippon Soda Kabushiki Kaisha. Substituted benzohydroxamates. 3,352,899, 11–14–67, Cl. 260—453.

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Tann, David. Proximity switch. 3,305,805, 2–21–67, Cl. 335—153.

Tann, David. Remote control side view mirror. 3,306,696, 2–28–67, Cl. 350—288.

Tann, David. Fastening device including helical spring-like element. 3,316,795, 5–2–67, Cl. 85—64.

Tann, David. Fastening device. 3,326,584, 6–20–67, Cl. 287—52.09.

Tannenberger, Helmut, H. Schachner, and W. Simm, to Compagnie Francaise de Raffinage. Fuel cell having solid stabilized zirconium oxide electrolyte. 3,350,230, 10–31–67, Cl. 136—86.

Tanner, Basil C., to Head Wrightson & Co. Ltd. Automatic control means. 3,332,621, 7–25–67, Cl. 236—46.

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Tanner, David, to E. I. du Pont de Nemours and Co. Process of graft polymerizing ethylenically unsaturated monomers to solid, shaped polycarbonamides employing heat as the sole graft initiator. 3,313,591, 4–11–67, Cl. 8—115.5.

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Tanner, James C., Jr. Method of preparing skin for use in a skin graft. 3,358,688, 12–19–67, Cl. 128—305.

Tanner, Richard, to Von Roll A.G. Method and furnace for the combustion of low-grade fuels, for instance refuse and the like. 3,301,222, 1–31–67, Cl. 122—2.

Tanner, Richard, to Von Roll AG. Furnace for burning bulky fuels, especially refuse, and improved method for operating the aforesaid furnace. 3,334,599, 8–8–67, Cl. 110—8.

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Tanner Walton B., to E. I. du Pont de Nemours and Co. Method for increasing the particle size of finely divided dusty polyvinyl alcohol. 3,316,230, 4–25–67, Cl. 260—91.3.

Tannerstal, Erik H., to Aktiebolaget Iggesunds Bruk. Tab units for the stretching of saw-blades in a gang saw. 3,339,600, 9–5–67, Cl. 143—156.

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Tantlinger, Keith W., to Fruehauf Corp. Trailer construction. 3,317,239, 5–2–67, Cl. 296—100.

Tantlinger, Keith W., to Fruehauf Corp. Coupled trailer chassis. 3,321,214, 5–23–67, Cl. 280—415.

Tantlinger, Keith W., to Fruehauf Corp. Hitch construction. 3,330,579, 7–11–67, Cl. 280—508.

Tantlinger, Keith W., and G. Chieger, to Fruehauf Corp. Retainer pin. 3,314,507, 4–18–67, Cl. 188—78.

Tantlinger, Keith W., D. D. Wilson, and G. Chieger, to Fruehauf Corp. Flat bed trailer construction. 3,319,393, 5–16–67, Cl. 52—496.

Tantlinger, Keith W., and M. Fujii, to Fruehauf Corp. Tube handling apparatus. 3,329,160, 7–4–67, Cl. 137—560.

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Tantsjura, Nicolai A.: *See*—
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Tanzer, Jay, to E. I. du Pont de Nemours and Co. Mop yarn. 3,321,903, 5–30–67, Cl. 57—140.

Tanzer, John J. Combined carrying unit and coaster. 3,350,131, 10–31–67, Cl. 294—87.2.

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Quaas, Joseph F., and Tanzman. 3,340,049.

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Taormina, Anthony J. Vegetable and fruit peeler. 3,299,510, 1–24–67, Cl. 30—279.

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Regenstein, Joseph, Jr., and Tapas. 3,297,617.
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Tapas, John C., and J. M. Menke, to Velsicol Chemical Corp. Composition and method for the treatment of soil. 3,319,-377, 5–16–67, Cl. 47—9.

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Tapijtfabriek Noordster N.V.: *See*—
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Taplin, John F. Rolling diaphragm devices having loose coupling between piston and piston rod to render the piston floating. 3,309,967, 3–21–67, Cl. 92—101.

Taplin, John F. Rolling diaphragm device with rolling diaphragm having clamping bead and resilient clamping means for the bead. 3,311,028, 3–28–67, Cl. 92—99.

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Tapp, Geoffrey E. E., and J. Davey, to County Commercial Cars Ltd. Suspensions for the front steerable wheels of a vehicle. 3,301,572, 1–31–67, Cl. 280—95.

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Tarczy-Hornock, Zoltan, and P. Young, to W. K. Rosenberry. High stability phase locked oscillator. 3,319,181, 5–9–67, Cl. 331—49.

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Tate, Cilton W., R. J. Bryan, Jr., and H. L. King, to Monsanto Co. Zinc chelates as catalysts in the production of polyesters. 3,329,656, 7–4–67, Cl. 260—75.

Tate, David P., and J. M. Augl, to The Standard Oil Co. Process for removing carbon monoxide from gases. 3,317,-275, 5–2–67, Cl. 23—2.

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Tatum, Roy E., to Blakely Products Co. Plaster edge strips. 3,345,789, 10–10–67, Cl. 52—367.

Tatum, Samuel A., to Newport News Shipbuilding and Dry Dock. Boom stress measurement and warning system. 3,338,091, 8–29–67, Cl. 73—88.5.

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Taub, David, to Merck & Co. Process for preparing 16α,17α-acetals and ketals of 16α,17α-21-trihydroxy-Δ⁴-pregnene-3,20-diones. 3,357,974, 12–12–67, Cl. 260—239.55.

Taub, David, N. L. Wendler, and R. D. Hoffsommer, Jr., to Merck & Co., Inc. 16-alkylene pregnene derivatives. 3,309,-272, 3–14–67, Cl. 167—65.

Taub, David, and N. L. Wendler, to Merck & Co., Inc. 16α-halo methyl-saturated steroids of the pregnane series. 3,321,496, 5–23–67, Cl. 260—397.45.

Taub, David, N. L. Wendler, and H. L. Slates, to Merck & Co., Inc. Process for producing 16β-alkyl and 16α-alkyl steroids of the pregnane series. 3,345,387, 10–3–67, Cl. 260—397.45.

Taub, David, and N. L. Wendler, to Merck & Co., Inc. Process of oxidizing hydroxy phenyl alanines to hydroxy benzyl alkyl ketones. 3,347,928, 10–17–67, Cl. 260—590.

Taub, Jesse J., to Cutler-Hammer, Inc. Multi mode microwave power measurement utilizing oversized measuring waveguide section to obtain plane waveform propagation. 3,327,-211, 6–20–67, Cl. 324—95.

Taub, Jesse J., and J. Goldberg, to Cutler-Hammer, Inc. Multi-mode microwave power meter having oversized measuring waveguide section with probes on all four walls. 3,327,212, 6–20–67, Cl. 324—95.

Taub, Ronald H. Collapsible display bin. 3,330,405, 7–11–67, Cl. 206—45.31.

Taub, Ronald H., to Creative Displays, Inc. Collapsible display bin. 3,330,406, 7–11–67, Cl. 206—45.31.

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Taube, Carl, K. Bockmann, and K.-H. Freytag, to Farbenfabriken Bayer Aktiengesellschaft. Increasing wash fastness of dyes on cellulosic materials with N methylolated quaternary ammonium ureido and urethane compounds. 3,353,901, 11–21–67, Cl. 8—74.

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Tauber, Gunter, M. Dohr, and J. Galinke, to Henkel & Cie, G.m.b.H. Process and compositions for stiffening textiles. 3,311,576, 3–28–67, Cl. 260—17.

Taubert, Werner, to Siemens & Halske Aktiengesellschaft. Fluid operated apparatus for printing binary-coded information. 3,307,675, 3–7–67, Cl. 197—15.

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Taul, Horst, and A. Wehlow, to Spinnfaser Aktiengesellschaft. Process for packing thread cables. 3,315,433, 4–25–67, Cl. 53—21.

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Tavan, Louis. Ventilated cooking stove unit. 3,303,839, 2–14–67, Cl. 126—299.

Tavano, Joseph V., Sr. Crash absorbing device. 3,333,880, 8–1–67, Cl. 293—30.

Tavendale, Alister J., to Atomic Energy of Canada, Ltd. Method for the production of semiconductor lithium-ion drift diodes. 3,329,538, 7–4–67, Cl. 148—188.

Tavenor, Albert S., and J. B. Borland, to United States Rubber Co. Rubber laminates. 3,296,061, 1–3–67. Cl. 161—240.

Tavera, Antonio, and S. J. Lawrence. Suckling apparatus for feeding young animals. 3,307,521, 3–7–67, Cl. 119—71.

Taverna, Thomas A., to Technical Tape Corp. Method for cutting rolls of adhesive coated tape. 3,301,109, 1–31–67, Cl. 82—47.

Taverna, Thomas A., to Technical Tape Corp. Apparatus for cutting rolls of adhesive coated tape. 3,324,750, 6–13–67, Cl. 82—70.1.

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Taylor, Albert J. Tree stand. 3,298,643, 1–17–67, Cl. 248—44.

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Taylor, Charlton A. Apparatus for direct reduction of metal oxides. 3,304,073, 2–14–67, Cl. 266—18.

Taylor, Clyde L., and R. E. Jordan. Automatic pressure door control for cotton pickers. 3,354,625, 11–28–67, Cl. 56—44.

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Taylor, Edward L., deceased (by W. M. Taylor, administratrix), and M. M. Chacon, Sr. Fuel pump tester. 3,340,728, 9–12–67, Cl. 73—118.

Taylor, Elliot L., V. Brajer, and S. H. Fried, to Thiokol Chemical Corp. Pressure actuated valve. 3,328,965, 7–4–67, Cl. 60—258.

Taylor, Elliot L., and H. W. Burdett, to Thiokol Chemical Corp. Thrust control apparatus for plastic propellant rocket motor. 3,349,563, 10–31–67, Cl. 60—252.

Taylor, Ernest, to Alliott Manlove & Co., Ltd. Feeding of laundry flatwork. 3,315,385, 4–25–67, Cl. 38—143.

Taylor, Ernest A., Jr., to Monsanto Co. Washing apparatus. 3,343,382, 9–26–67, Cl. 68—181.

Taylor, Ernest A., Jr., to Monsanto Co. Washing apparatus. 3,343,383, 9–26–67, Cl. 68—181.

Taylor, Ernest A., Jr., to Monsanto Co. Washing apparatus. 3,353,379, 11–21–67, Cl. 68—181.

Taylor, Ernest A., Jr., to Monsanto Co. Washing apparatus. 3,353,380, 11–21–67, Cl. 68—181.

Taylor, Ernest A., Jr., to Monsanto Co. High velocity tow washing cascade. 3,353,381, 11–21–67, Cl. 68—184.

Taylor, Felix E. Recovering oils from combustible materials. 3,340,282, 9–5–67, Cl. 260—412.

Taylor, Floyd E., to Swift-Ohio Corp. Method of manufacturing vehicle wheels. 3,333,319, 8–1–67, Cl. 29—159.01.

Taylor, Frank: *See*—
Bannister, Howard G., Hillock, and Taylor. 3,333,595.

Taylor, Frank. Sliding door for railroad freight car. 3,337,995, 8–29–67, Cl. 49—426.

Taylor, Frank H., to Otis Engineering Corp. Subsurface chemical treatment of wells. 3,297,083, 1–10–67, Cl. 166—1.

Taylor, Frank N., to Rank Precision Industries Ltd., trading as The Rank Organisation Rank Taylor Hobson Division. Electrical pulse width discriminators. 3,328,602, 6–27–67 Cl. 307—88.5.

Taylor, Frederick G. Trailer jack. 3,345,038, 10–3–67, Cl. 254—86.

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Taylor, Garthwood R., to General Motors Corp. Method of processing clutch plates. 3,316,138, 4–25–67, Cl. 156—267.

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Taylor, George A.: *See*—
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Taylor, George H.: *See*—
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Taylor, George O., to The British Aluminium Co. Ltd. Connector pieces for tubular elements, tubular structures incorporating such connector pieces and methods of making such structures. 3,314,699, 4–18–67, Cl. 287—54.

Taylor, George W. C., and J. R. White. Manufacture of normal lead 2:4-dinitro-resorcinate. 3,301,882, 1–31–67, Cl. 260—435.

Taylor, Gerwin G., to American Maize Products Co. Apparatus for continuous conversion of starch. 3,348,972, 10–24–67, Cl. 127—28.

Taylor, Guillermo K. Tractive device comprising a belt driven soft roller. 3,311,424, 3–28–67, Cl. 305—12.

Taylor, Harold L., to Inland Steel Co. Apparatus for quenching web material. 3,358,980, 12–19–67, Cl. 266—3.

Taylor, Harold L., and J. M. Marshall, to Inland Steel Co. Uniform thin fluid sheet type spray device. 3,360,202, 12–26–67, Cl. 239—455.

Taylor, Harold M., to Eli Lilly and Co. Nematocidal and fungicidal methods. 3,313,683, 4–11–67, Cl. 167—30.

Taylor, Harold M., to Eli Lilly and Co. Fungicidal compositions and methods. 3,322,618, 5–30–67, Cl. 167—30.

Taylor, Harry E. Folding bed guard. 3,336,609, 8–22–67, Cl. 5—331.

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Taylor, Ivan J. Method and apparatus for positioning reinforcement bars in concrete pavements. 3,334,559, 8–8–67, Cl. 94—39.

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Taylor, Ira P., Jr. Plastic cemetery monument. 3,310,918, 3–28–67, Cl. 52—103.

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Taylor, James A., to Continental Oil Co. Process for making chlorinated tri-sodium phosphate. 3,342,737, 9–19–67, Cl. 252—99.

Taylor, James C. Engraving apparatus for making model building material. 3,299,803, 1–24–67, Cl. 101—5.

Taylor, James E.: *See*—
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Taylor, James E., to United Aircraft Corp. Self-centering, proportionating wafer fixture. 3,315,637, 4–25–67, Cl. 118—503.

Taylor, James F., to Creative Marketing Inc. Game for simulating tactics of the sport of curling. 3,337,220, 8–22–67, Cl. 273—135.

Taylor, James G.: *See*—
Stirling, Harold J., and Taylor. 3,349,188.

Taylor, James G., to The Black Clawson Co. Band saw resawing machine. 3,314,455, 4–18–67, Cl. 143—5.

Taylor, James S., to Western Electric Co., Inc. Coaxial cable unit measuring device and missing disc indicator. 3,334,234, 8–1–67, Cl. 250—209.

Taylor, John, and E. M. Pedersen, to Beckman Instruments, Inc. Apparatus for scanning indicia traces on record medium. 3,342,997, 9–19–67, Cl. 250—219.

Taylor, John A., and G. B. Brigham, to Central Fibre Products. Portable folding camping cabin or house. 3,333,373, 8–1–67, Cl. 52—63.

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Taylor, John E. Solid medium thermal engines. 3,316,415, 4–25–67, Cl. 290—1.

Taylor, John H., to Imperial Chemical Industries Ltd. Process for separation of chlorinated polymers from carbon tetrachloride by azeotropic distillation. 3,355,442, 11–28–67, Cl. 260—92.8.

Taylor, John H., and R. L. Jacobson, to Chevron Research Co. Catalytic hydrocracking process with a silica-Magnesia cracking base promoted with nickel and tungsten. 3,336,216, 8–15–67, Cl. 208—110.

Taylor, John J.: *See*—
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Taylor, John J., to The Ohio Brass Co. Vibration damper for transmission line conductors. 3,321,569, 5–23–67, Cl. 174—42.

Taylor, John R., to Allied Chemical Corp. Safety package for dangerous liquids. 3,308,980, 3–14–67, Cl. 215—12.

Taylor, John W., to United States of America, Army. Analyzer system using phase distortion measurements. 3,358,227, 12–12–67, Cl. 324—57.

Taylor, John W., Jr., and G. W. Amato, to United States of America, Air Force. Detector-line drive with input tuning and feedback means. 3,314,018, 4–11–67, Cl. 329—194.

Taylor, Joseph C., to Westinghouse Electric Corp. Control circuit for electron valve in motor control system. 3,316,472, 4–25–67, Cl. 318—331.

Taylor, Joseph H.: *See*—
Braithwaite, John C., Grant, and Taylor. 3,326,266.
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Taylor, Joseph M., and J. W. Turner, to Taylor Tube Seal, Inc. Lined pipe and pipe joints and method of lining pipe and joining lined pipe. 3,298,716, 1–17–67, Cl. 285—55.

Taylor, Joseph W., to Daniel Orifice Fitting Co. Butterfly valve. 3,311,128, 3–28–67, Cl. 137—383.

Taylor, Keith R., and J. P. Brown, to Monsanto Chemical Ltd. Organo-oxythiocarbonyl aromatic disulfide stabilizers for synthetic rubber. 3,305,521, 2–21–67, Cl. 260—45.9.

Taylor, Kelley G.: *See*—
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Bossinger, Charles D., and Taylor. 3,313,696.
Bossinger, Charles D., and Taylor. 3,313,697.
Bossinger, Charles D., and Taylor. 3,313,699.
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Bossinger, Charles D., and Taylor. 3,338,785.

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Taylor, Kendrick C., to Pennsalt Chemicals Corp. Metal vapor coating apparatus. 3,326,177, 6–20–67, Cl. 118—49.1.

Taylor, Kendrick C., and T. R. Kennedy, to Pennsalt Chemical Corp. Molten metal stirring and vacuum degassing. 3,330,900, 7–11–67, Cl. 13—28.

Taylor, Kenneth M., to The Carborundum Co. Production of refractory bodies. 3,305,372, 2–21–67, Cl. 106—55.

Taylor, Kirman, to Diamond Alkali Co. Method of preparing calcium carbonate. 3,347,624, 10–17–67, Cl. 23—66.

Taylor, Laurence W.: *See*—
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Taylor, Laurence W., to W. E. & F. Dobson, Ltd. Hydraulic systems for chain tighteners and the like. 3,326,524, 6–20–67, Cl. 254—51.

Taylor, Laurence W., and F. Town, to F. & W. E. Dobson, Ltd. Hydraulic mine roof supports. 3,302,529, 2–7–67, Cl. 91—432.

Taylor, Leonard F., Jr. Box. 3,306,516, 2–28–67, Cl. 229—36.

Taylor, Leonard F., Jr. Box. 3,347,448, 10–17–67, Cl. 229—34.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Float for liquid level gauge and process of making same. 3,320,807, 5–23–67, Cl. 73—322.5.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Gauge head cover. 3,320,812, 5–23–67, Cl. 73—431.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Removable gauge head cover. 3,320,813, 5–23–67, Cl. 73—431.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Indicator head for liquid level gauge and process of making same. 3,320,922, 5–23–67, Cl. 116—118.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Liquid level gage. 3,320,923, 5–23–67, Cl. 116—118.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Liquid level gauge and process of making same. 3,339,413, 9–5–67, Cl. 73—317.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Liquid level gauge. 3,339,519, 9–5–67, Cl. 116—118.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Process of making float and float rod. 3,340,114, 9–5–67, Cl. 156—73.

Taylor, Leta S., P. B. Johnson, and E. D. Huskey, to J. Y. Taylor Mfg. Co. Float for liquid level gage. 3,354,719, 11–28–67, Cl. 73—322.5.

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Taylor, Lloyd D., to Polaroid Corp. Chelatable spiro [benzopyran-2,2′-indoline] derivatives. 3,299,079, 1–17–67, Cl. 260—294.7.

Taylor, Lloyd D., to Polaroid Corp. Composition and process utilizing photospirans. 3,320,067, 5–16–67, Cl. 96—90.

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Taylor, Maurice I., and A. C. Maguire, to Rolls-Royce Ltd. Movable power plant for direct lift and forward propulsion. 3,355,889, 12–5–67, Cl. 60—228.

Taylor, Maurice K., and D. Winrow, to Ferranti-Packard Electric Ltd. Magnetically operated signs. 3,303,494, 2–7–67, Cl. 340—373.

Taylor, Neil J., to E. M. Cromwell and Co., Ltd. Packaging of liquids. 3,339,716, 9–5–67, Cl. 206—47.

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Taylor, Peter A., and R. J. Hawkins, to Babcock & Wilcox Ltd. Nuclear reactors. 3,305,451, 2–21–67, Cl. 176—60.

Taylor, Philip S., to The Kendall Co. Milk filters. 3,307,706, 3–7–67, Cl. 210—506.

Taylor, Philip S., to The Kendall Co. Process for making filter-sheet material. 3,350,221, 10–31–67, Cl. 117—140.

Taylor, Ralph E., to United States of America, National Aeronautics and Space Administration. Polarization diversity monopulse tracking receiver. 3,359,555, 12–19–67, Cl. 343—16.

Taylor, Ralph W. Underslung wheel suspension systems. 3,356,386, 12–5–67, Cl. 280—106.5.

Taylor, Ralph W. Collapsible trailers. 3,356,410, 12–5–67, Cl. 296—27.

Taylor, Randolph G., to United States of America, Navy. 44–60 angstrom photometer having an aluminum coated Mylar window. 3,348,090, 10–17–67, Cl. 313—93.

Taylor, Ray W. Firearm display stand. 3,345,027, 10–3–67, Cl. 248—187.

Taylor, Raymond, to Associated Electrical Industries Ltd. Control of heatable discharge lamps. 3,296,488, 1–3–67, Cl. 315—116.

Taylor, Raymond G., Jr., to Byron Jackson, Inc. Swab construction. 3,296,944, 1–10–67, Cl. 92—180.

Taylor, Raymond H. Chain jack tensioning device. 3,311,348, 3–28–67, Cl. 254—74.

Taylor, Raymond H. Wedge-type eye bolt. 3,338,128, 8–29–67, Cl. 85—79.

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Taylor, Roy P., and D. Robb, to Burndept, Ltd. Layer type battery having both terminals at one end. 3,347,709, 10–17–67, Cl. 136—108.

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Taylor, Ruel E., Jr., and F. J. Fitzpatrick, to Hudson Pulp & Paper Corp. Paper converting, and particularly producing improved paper towels. 3,348,477, 10–24–67, Cl. 101—23.

Taylor, Sidney, to Wagner Electric Corp. Snap action device. 3,349,205, 10–24–67, Cl. 200—122.

Taylor, Stanford E. Audio-visual instructional apparatus. 3,344,709, 10–3–67, Cl. 88—28.

Taylor, Steadmon O., to Inventions and Invention Consultants, Inc. Fastening devices. 3,357,294, 12–12–67, Cl. 85—36.

Taylor, Theodore B., to United States of America, Atomic Energy Commission. Production of isotopes from thermonuclear explosions. 3,331,744, 7–18–67, Cl. 176—10.

Taylor, Thomas I., to Isomet Corp. Process for producing a synthetic breathable atmosphere. 3,351,562, 11–7–67, Cl. 252—372.

Taylor Tube Seal, Inc.: *See*—
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Taylor, William, Jr. Dispensing device. 3,311,320, 3-28-67, Cl. 242—128.

Taylor, William C., G. J. Gardner, and G. R. Grafius, to Automation Devices, Inc. Orienting device. 3,338,363, 8-29-67, Cl. 193—43.

Taylor, William D., to Ronson Corp. Electrically operated automatic cigarette lighter-dispenser. 3,323,678, 6-6-67, Cl. 221—147.

Taylor, William E., to American Can Co. Container construction. 3,303,958, 2-14-67, Cl. 220—54.

Taylor, William E., to American Can Co. Scoring apparatus and method. 3,338,199, 8-29-67, Cl. 113—15.

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Taylor, William F., and J. H. Sinfelt, to Esso Research and Engineering Co. High activity nickel-alumina catalyst. 3,320,182, 5-16-67, Cl. 252—466.

Taylor, William F., and J. H. Sinfelt, to Esso Research and Engineering Co. Mild and selective hydrogenation with a town-gas catalyst. 3,328,477, 6-27-67, Cl. 260—677.

Taylor, William F., J. H. Sinfelt, and D. J. C. Yates, to Esso Research and Engineering Co. Stabilized high-activity catalyst. 3,351,566. 11-7-67, Cl. 252—452.

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Taylor, William G. K., A. H. Page, and C. P. Vale, to British Industrial Plastics Ltd. Triazine hydroxymethane sulphonate accelerator for aminoplastic molding compositions. 3,338,851, 8-29-67, Cl. 260—15.

Taylor, William H. Water heater and heat exchanger. 3,336,910, 8-22-67, Cl. 122—250.

Taylor, William H. Slat for chain-link fence. 3,355,150, 11-28-67, Cl. 256—34.

Taylor, William H. Slat for chain-link fence. 3,356,343, 12-5-67, Cl. 256—34.

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Tazima, Yoshio, M. Iwamoto, and S. Yuguchi, to Tayo Rayon Kabushiki Kaisha. Catalyst for polymerization of ethylene and method for polymerizing ethylene using the catalyst. 3,316,235, 4-25-67, Cl. 260—94.9.

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Kwartiroff, Alexis A., and Tchinnis. 3,336,540.

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Teaford, Earl Q., to Allied Chemical Corp. Consolidation by chemical sintering. 3,359,098, 12-19-67, Cl. 75—208.

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Teague, Jo Morgan, Jr., and B. E. Wiens, to Owens-Illinois, Inc. Method for improving the durability of glassware. 3,337,321, 8-22-67, Cl. 65—30.

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Thassy, Michael G., to International Harvester Co. Constant torque steering system with double acting hydraulic cylinders. 3,326,316, 6–20–67, Cl. 180—79.2.

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Tholstrup, Clarence E., to Eastman Kodak Co. Poly-α-olefin compositions containing dialkyl-3,3'-thiodipropionates and thiobisphenols. 3,345,328, 10–3–67, Cl. 260—45.85.

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Thoma, Wilhelm, and H. Rinke, to Farbenfabriken Bayer Aktiengesellschaft. Process for reducing the acid number of polyesters. 3,300,447, 1–24–67, Cl. 260—75.

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Thomas, David G., to United States of America, Atomic Energy Commission. Turbulence promoter for increased heat and mass transfer. 3,302,701, 2–7–67, Cl. 165—109.

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Thomas, De Wayne, to International Oil Burner Co. Oil furnace having compartmented air handling systems. 3,359,966, 12–26–67, Cl. 126—110.

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Thomas, Eugene P., to Westinghouse Electric Corp. Resuscitator apparatus. 3,336,920, 8–22–67, Cl. 128—53.

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Schröder, Ludwig, Thomas, and Jerchel. 3,321,481.

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Benoit, Gerard, Ferdy and Franz Mayer, and Thomas. 3,350,681.

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Thomas, Richard E., and G. A. Haas, to United States of America, Navy. Method and apparatus for investigating variations in surface work function by electron beam scanning. 3,337,729, 8–22–67, Cl. 250—49.5.

Thomas, Richard E., and G. A. Haas, to United States of America, Navy. System for investigating work function distribution and field distribution of a surface by electron beam scanning. 3,341,704, 9–12–67, Cl. 250—49.5.

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Thompson, Charles T., to Joy Mfg. Co. Adjustable mounting for rock drills. 3,338,316, 8–29–67, Cl. 173—43.

Thompson, Charles W.: *See*—
Kovach, John T., Jr., and Thompson. 3,295,585.

Thompson, Chester C., Jr., to Radiation Dynamics, Inc. Current control and indicator for high voltage accelerators. 3,309,616, 3–14–67, Cl. 328—258.

Thompson, Clyde H. Burner heat distributor. 3,307,531, 3–7–67, Cl. 126—215.

Thompson, Clyde L.: *See*—
Scott, Robert K., McCreight, Eistein, and Thompson. 3,314,758.

Thompson, David, Jr., and D. P. Fisher, to General Motors Corp. Direct acting self-adjusting brake mechanism. 3,334,710, 8–8–67, Cl. 188—79.5.

Thompson, David F.: *See*—
Millington, Ralph, and Thompson. 3,314,720.

Thompson, David L., to Thompson Tank and Mfg. Co. Inc. Portable vacuum and pressure liquid tank truck. 3,315,611, 4–25–67, Cl. 103—235.

Thompson, David L., to Thompson Tank and Mfg. Co., Inc. Float valve assembly for a portable vacuum tank. 3,347,263, 10–17–67, Cl. 137—448.

Thompson, Dewey T., and W. T. Fincher, to Callaway Mills Co. Curl resistant dust collecting mats. 3,306,808, 2–28–67, Cl. 161—66.

Thompson, Douglas K.: *See*—
Baker, Von D., Castle, Mar, and Thompson. 3,333,818.
Castle, William S., Mar, and Thompson. 3,316,717.
Castle, William S., Mar, and Thompson. 3,338,508.
Castel, William S., Thompson, and Mar. 3,320,749.

Thompson, Earl A. Indexing device. Re. 26,218, 6–6–67, Cl. 90—56.

Thompson, Earl A. Rolling machine for forming tubular workpieces. 3,299,680, 1–24–67, Cl. 72—6.

Thompson, Earl A. Turbine. 3,302,923, 2–7–67, Cl. 253—2.

Thompson, Earl A. Engine valve operating mechanism. 3,314,404, 4–18–67, Cl. 123—90.

Thompson, Earl A., to Earl A. Thompson Mfg. Co. Internal grinding machine. 3,345,782, 10–10–67, Cl. 51—50.

Thompson, Earl A., Mfg. Co.: *See*—
Thompson, Earl A. 3,345,782.
Van Deberg, Walter H. 3,360,079.

Thompson, Elbert G.: *See*—
Johnson, Roger E., and Thompson. 3,316,784.

Thompson Electric Co., The: *See*—
Farrington, Robert K. 3,342,988.

Thompson, Ellis G., E. C. Dubbels, and W. Ostrom, to Blaw-Knox Co. Agglomerating process for powdered food solids or the like. 3,313,629, 4–11–67, Cl. 99—56.

Thompson, Eugene H. Manicuring device. 3,311,117, 3–28–67, Cl. 132—73.6.

Thompson, Floyd N. Method and apparatus for stretching carpets including compression force measuring means. 3,311,347, 3–28–67, Cl. 254—57.

Thompson, Francis T., and L. S. Schmitz, to Westinghouse Electric Corp. Photoconductive multiplexing apparatus. 3,335,228, 8–8–67, Cl. 179—15.

Thompson, Frank R., to The New York Air Brake Co. Valve with resilient seat and retainer. 3,325,142, 6–13–67, Cl. 251—306.

Thompson, Franklin E. Cable cutter for simultaneously performing a plurality of spaced cuts. 3,309,768, 3–21–67, Cl. 30—91.1.

Thompson, Gary C. Article display and transfer counter unit. 3,343,900, 9–26–67, Cl. 312—140.1.

Thompson, George E., to Girling Ltd. Vehicle drum brake adjuster. 3,352,383, 11–14–67, Cl. 188—79.5.

Thompson, George L., to American Potash & Chemical Corp. Rare earth oxide and vanadate phosphors. 3,322,682, 5–30–67, Cl. 252—301.4.

Thompson, Gerald D. Electrical cord dispenser. 3,316,361, 4–25–67, Cl. 191—12.4.

Thompson, Gordon B., to Northern Electric Co. Ltd. Floating reference clipping circuit. 3,344,284, 9–26–67, Cl. 307—88.5.

Thompson, Gordon W., to E. I. du Pont de Nemours and Co. Process for minimizing pellicle fouling. 3,322,564, 5–30–67, Cl. 117—102.

Thompson, Gordon W., to E. I. du Pont de Nemours and Co. Flame treating burner device. 3,360,029, 12–26–67, Cl. 158—116.

Thompson Grinder Co., The: *See*—
Wilson, John C. 3,305,974.

Thompson, Harold A., to Texaco Inc. Method for emulsion breaking of crude oils. 3,346,508, 10–10–67, Cl. 252—328.

Thompson, Harold D., to Piggy Wiggly Corp. Shopping cart. 3,335,818, 8–15–67, Cl. 186—1.

Thompson, Harris A. Method and apparatus for application of nebulized medication in positive pressure respiratory equipment. 3,301,255, 1–31–67, Cl. 128—29.

Thompson-Hayward Chemical Co.: *See*—
Shadbolt, Charles A. 3,328,244.

Thompson, Herbert E.: *See*—
Blackley, Charles L., and Thompson. 3,308,451.

Thompson, Howard J., to Honeywell Inc. Sphericity measuring apparatus having a capacitor probe and a stable rotating means. 3,319,163, 5–9–67, Cl. 324—61.

Thompson, Howard J., and H. D. West, to Honeywell, Inc. Balancing apparatus. 3,299,714, 1–24–67, Cl. 73—468.

Thompson, Hugh P., to Vickers Ltd. Methods of freeze-drying material, particularly foodstuff material. 3,318,012, 5–9–67, Cl. 34—5.

Thompson Industries, Inc.: *See*—
Buechler, William R. 3,323,831.
Dagobert, Henri A. L. 3,317,249.

Thompson, Ira F., to Radio Corp. of America. Deflection yoke coil. 3,310,763, 3–21–67, Cl. 335—213.

Thompson, Ivan P., to Union Carbide Corp. Thermochemical desurfacing method. 3,322,578, 5–30–67, Cl. 148—9.5.

Thompson, Ivor A., to A. C. Egerton Engineering (Bromley) Ltd. Hospital and like beds. 3,300,793, 1–31–67, Cl. 5—61.

Thompson, Jack B.: *See*—
Smith, Kent F., and Thompson. 3,344,277.

Thompson, Jack L.: *See*—
Bahniuk, Eugene, Budzich, and Thompson. 3,320,745.
Bahniuk, Eugene, and Thompson. 3,347,041.

Thompson, James E., to The Procter & Gamble Co. Synthesis of mixed glycerides. 3,337,596, 8–22–67, Cl. 260—410.7.

Thompson, James J.: *See*—
Ball, Harry, and Thompson. 3,327,864.

Thompson, James R.: *See*—
Kleist LeRoy, Thompson, and Zepf. 3,334,539.

Thompson, James R., to Washington Iron Works. Interlocking yarder. 3,300,188, 1–24–67, Cl. 254—184.

Thompson, James R., to Washington Iron Works. Lock mechanism for telescoping spar. 3,346,281, 10–10–67, Cl. 287—58.

Thompson, Jerome B., to United States of America, Navy. Method and apparatus for coating the interior of hollow bodies. 3,303,041, 2–7–67, Cl. 117—18.

Thompson, Joel E., to Bell Telephone Laboratories, Inc. Miniature indicating fuse. 3,308,257, 3–7–67, Cl. 200—123.

Thompson, John A., to Esso Research and Engineering Co. Purification of alkyl aryl hydrocarbons. 3,338,983, 8–29–67, Cl. 260—674.

Thompson, John H.: *See*—
Durgin, Charles B., Thompson, and Whittaker. 3,311,760.
Geil, Fred G., Whittaker, and Thompson. 3,359,537.
Nelkin, Arthur, Thompson, and Geil. 3,345,607.

Thompson, John H., D. D. Skinner, R. H. Whittaker, and F. G. Geil, to Westinghouse Electric Corp. Temperature sensor. 3,318,152, 5–9–67, Cl. 73—362.8.

Thompson, John W., and J. C. Ownby, to Eastman Kodak Co. Thermal stabilizers for jet fuels. 3,323,884, 6–6–67, Cl. 44—66.

Thompson, John W., and J. C. Ownby. Amides of N-acyl sarcosines. 3,324,155, 6–6–67, Cl. 260—404.5.

Thompson, John W., and G. R. Lappin, to Eastman Kodak Co. Antioxidants for lubricating oils. 3,328,301, 6–27–67, Cl. 252—47.5.

Thompson, John W., and T. G. Davis, to Eastman Kodak Co. Antioxidant composition and ester lubricating oil containing it. 3,347,791, 10–17–67, Cl. 252—33.6.

Thompson, Joseph, to Consolidated Cigar Corp. Shipping and display container. 3,339,714, 9–5–67, Cl. 206—44.11.

Thompson, Joseph C. Chiropractic table. 3,343,531, 9–26–67, Cl. 128—69.

Thompson, Joseph H., to Cue-Thompson & Co. Ventilating wall construction with stud location indicators. 3,318,056, 5–9–67, Cl. 52—105.

Thompson, Julian L., to United States of America, Navy. Television tracking error detector. 3,320,360, 5–16–67, Cl. 178—6.8.

Thompson, Kenneth B. Optical viewing apparatus. 3,357,769, 12–12–67, Cl. 350—121.

Thompson, Kenneth R., to General Electric Co. Automatic zeroing for a rolling mill position regulator. 3,330,142, 7–11–67, Cl. 72—8.

Thompson, Kevin N.: *See*—
Calabrese, Anthony M., Dill, and Thompson. 3,324,030.

Thompson, Laurie D. Equalizing drive for tandem axle road vehicles. 3,347,332, 10–17–67, Cl. 180—22.

Thompson, Lawrence C.: *See*—
McMillian, Thomas, and Thompson. 3,352,144.

Thompson, Lawrence K., III. Controlled medical injection apparatus. 3,336,925, 8–22–67, Cl. 128—218.

Thompson, Leon J., to International Business Machines Corp. Systems for controlling stepper motor starting and stopping operations. 3,328,658, 6–27–67, Cl. 318—138.

Thompson, Leonard H.: *See*—
Larson, Harold A., Schultz, Thompson, and Wells. 3,311,280.
Wells, Jack F., and Thompson. 3,304,477.

Thompson, Leonard R.: *See*—
Hennis, Henry E., and Thompson. 3,320,304.

Thompson, Leonard R., to The Dow Chemical Co. Salicylates of hydroxymethylated diphenyl ether. 3,325,533, 6–13–67, Cl. 260—474.

Thompson, Lionel D., to Holley Carburetor Co. Engine control device. 3,358,664, 12–19–67, Cl. 123—140.

Thompson, Lloyd E.: *See*—
Turner, John F., Ziegler, Thompson, and Jessen. 3,352,518.

Thompson, Malcolm F., to North American Aviation, Inc. Artillery fire control system. 3,313,209. 4–11–67, Cl. 89—41.

Thompson, Marion L. Valve damping assembly. 3,298,337, 1–17–67, Cl. 123—188.

Thompson, Marshall F. Push button mechanism with interlocking apparatus and energizing means therefor. 3,299,222, 1–17–67, Cl. 200—5.

Thompson, Matthew C.: *See*—
Oury, Ralph M. 3,327,986.

Thompson Mfg. Co., Inc.: *See*—
Craig, Burnie M. 3,335,298.

Thompson, Milton A.: *See*—
Pitts, Sam H., Jr., and Thompson. 3,335,027.

Thompson, Orville I., to Bell & Howell Co. Device for constructing electrical apparatus. 3,327,173, 6–20–67, Cl. 317—101.

Thompson, Otis M., to Jacuzzi Bros. Inc. Injector assembly and associated foot valve assembly. 3,323,468, 6–6–67, Cl. 103—260.

Thompson, Paul F., to Carlisle Chemical Works, Inc. Process comprising employing trialkyltin carboxylates for repelling rodents. 3,309,269, 3–14–67, Cl. 167—46.

Thompson, Philip M., to Plessey-UK Ltd. Multi-emitter bipolar transistors utilized as binary counter and logic gate. 3,345,518, 10–3–67, Cl. 307—88.5.

Thompson Processing Co., Inc.: *See*—
Hoenig, Donald J. 3,324,608.

Thompson, Quentin E., to Monsanto Co. Cyclic thionosulfites and their prepartion. 3,357,993, 12–12–67, Cl. 260—327.

Thompson, Ralph J., and C. T. Loshing. Crystal oscillator having frequency proportional to variations of an electrical load. 3,297,956, 1–10–67, Cl. 331—177.

Thompson, Raymond, to United States Borax & Chemical Corp. Hydrazine borate fluxes. 3,344,001, 9–26–67, Cl. 148—23.

Thompson, Raymond, M. P. Brown, H. B. Silver, A. E. Dann, to United States Borax & Chemical Corp. Use of alkylamine borates as corrosion inhibitor for ferrous metal. 3,360,390, 12–26–67, Cl. 117—16.

Thompson, Raymond S. Grape and flower harvesting tools. 3,295,203, 1–3–67, Cl. 30—232.

Thompson, Richard L., to General Electric Co. Cooling arrangement for electrical apparatus. 3,317,796, 5–2–67, Cl. 317—100.

Thompson, Richard L., and F. B. Dwyer, to The Colonial Sugar Refining Co. Ltd. Method of rendering asbestos ore particles differentially fluorescent. 3,346,111, 10–10–67, Cl. 209—9.

Thompson, Robert E., to Sehering Corp. Combination dispenser. 3,346,146, 10–10–67, Cl. 222—189.

Thompson, Robert R.: *See*—
Ignatowski, James R., and Thompson. 3,343,025.

Thompson, Robert L., to Ingersoll-Rand Co. Boom mounted drill support. 3,304,033, 2–14–67, Cl. 248—16.

Thompson, Robert R., to Pan American Petroleum Corp. Soil gas prospecting for petroleum. 3,302,706, 2–7–67, Cl. 116—4.

Thompson, Robert R., and J. C. Cumming, to Rockwell-Standard Corp. Laminated articles and methods of bonding and debonding therefor. 3,348,640, 10–24–67, Cl. 188—250.

Thompson, Robert W.: *See*—
Pyatt, Lawrence A. 3,302,131.

Thompson, Ronald R.: *See*—
Cook, Albert N., and Thompson. 3,340,835.
Peterson, Wesley R., Cook, Thompson, and Stolpen. 3,353,424.

Thompson, Ronald R., and A. H. Stolpen, to The Singer Co. Single pile foot controller. 3,328,740, 6–27–67, Cl. 338—108.

Thompson, Samuel G.: *See*—
Dusenbury, Joseph H., and Thompson. 3,336,644.

Thompson, Samuel G., to Deering Milliken Research Corp. Process for compacting fabric. 3,325,871, 6–20–67, Cl. 26—18.6.

Thompson, Seth W. Adjustable linkage mechanism. 3,354,730, 11–28–67, Cl. 74—42.

Thompson, Seth W. Oscillating and rotating lawn sprinkler. 3,355,110, 11–28–67, Cl. 239—242.

Thompson, Stanley M.: *See*—
Egan, Gerald H., Smith, and Thompson. 3,308,512.

Thompson, Stanley P., and R. J. Martinovich, to Phillips Petroleum Co. Containers. 3,302,856, 2–7–67, Cl. 229—51.

Thompson Tank and Mfg. Co. Inc.: *See*—
Thompson, David L. 3,315,611.
Thompson, David L. 3,347,263.

Thompson, Theodore F. Fluid coupling. 3,301,096, 1–31–67, Cl. 74—774.

Thompson, Thomas E.: *See*—
Taplin, Lael B., Datwyler, Madurski, and Thompson. 3,302,398.

Thompson, Thomas W.: *See*—
Sommers, Donald J., and Thompson. 3,331,070.

Thompson, Tom H. Valve plate mounting for a cylinder and multi-piston type pump. 3,295,460, 1–3–67, Cl. 103—162.

Thompson, Vernon F. Fuel supply system for volatile fluids. 3,324,923, 6–13–67, Cl. 158—36.3.

Thompson, Vernon F. Carburetor float valve. 3,334,649, 8–8–67, Cl. 137—329.04.

Thompson, Vernon R.: *See*—
Cloran, Thomas S., and Thompson. 3,340,055.
Cloran, Thomas S., and Thompson. 3,340,056.

Thompson, Wallace M.: *See*—
Jouhal, Teja S., and Thompson. 3,332,342.

Thompson, Walter A., to Alfred R. Schlipalius. Matrix tabulating and alignment tool. 3,295,668, 1–3–67, Cl. 199—47.

Thompson, Warren H. Boat trailer. 3,298,551, 1–17–67, Cl. 214—506.

Thompson, Wendell L.: *See*—
Parr, Edward L. 3,327,755.
Parr, Edward L. 3,338,516.
Parr, Edward L. 3,358,482.

Thompson, Wendell S.: *See*—
Heffelfinger, Robert D., Hagerborg, Thompson, and Oldenkamp. 3,295,664.
Heffelfinger, Robert D., Hagerborg, Thompson, and Oldenkamp. 3,330,310.

Thompson, Willard W.: *See*—
Smith, Gean D., and Thompson. 3,359,697.

Thompson, William A. Electrical connector for small insulated wires. 3,303,266, 2–7–67, Cl. 174—84.

Thompson, William B.: *See*—
Brewer, Lee M., Rohde, and Thompson. 3,315,570.
Reinke, James J., Rohde, and Thompson. 3,327,340.

Thompson, William C. Portable caseless dry battery electric lamp. 3,332,805, 7–25–67, Cl. 136—110.

Thompson, William E., to General Motors Corp. Die casting plunger piston ring. 3,300,822, 1–31–67, Cl. 22—70.

Thompson, William E., and B. G. Simmons, deceased (by H. G. Simmons, executor). Removable keel block. 3,344,613, 10–3–67, Cl. 61—66.

Thompson, William J., to American Can Co. Electrostatic printing with a magnetic brush feed. 3,358,594, 12–19–67, Cl. 101—114.

Thompson, William R.: *See*—
Baker, Samuel B., and Thompson. 3,359,331.

Thompson, William R., to Atlas Motor Graders, Inc. Earth handling machine. 3,319,366, 5–16–67, Cl. 37—117.5.

Thompson, William S., to Elkhart Brass Mfg. Co., Inc. Hose clamp for hose storage means. 3,338,260, 8–29–67, Cl. 137—355.28.

Thompson, William S., Jr., B. J. Frazier, and O. L. Morrisett, to Halliburton Co. Rotary valve with expandable liner. 3,346,002, 10–10–67, Cl. 137—246.22.

Thoms, Edward J. Retainer for tape on a reel. 3,357,547, 12–12–67, Cl. 206—53.

Thomsen, Alfred M.: *See*—
Hess, Robert W., Thomsen, Porter, and Anderson. 3,314,797.

Thomsen, Donald L., and J. R. Anderson, to Minnesota Mining and Mfg. Co. Surface finishing. 3,355,760, 12–5–67, Cl. 15—246.

Thomsen, Jack W.: *See*—
Soong, William E., and Thomsen. 3,337,147.

Thomson, Charles, to Solar Thomson Engineering Co., Ltd. Solids handling equipment. 3,318,437, 5–9–67, Cl. 198—62.

Thomson, Charles, to Solar Thomson Engineering Co., Ltd. Solids handling equipment. 3,318,440, 5–9–67, Cl. 198—140.

Thomson, Charles, to Solar Thomson Engineering Co. Ltd. Conveyor belts. 3,343,652, 9–26–67, Cl. 198—191.

Thomson, Charles, to Solar Thomson Engineering Co. Ltd. Convevor belts. 3,343,653, 9–26–67, Cl. 198—203.

Thomson, Charles, to Solar Thomson Engineering Co. Ltd. Solids handling equipment. 3,344,956, 10–3–67, Cl. 222—56.

Thomson, Charles, to Solar Thomson Engineering Co. Ltd. Conveyors. 3,351,179, 11–7–67, Cl. 198—203.

Thomson, Charles, to Solar Thomson Engineering Co. Ltd. Cable belt. 3,352,408, 11–14–67, Cl. 198—201.

Thomson Corp.: *See*—
Briggs, Sidney, III. 3,325,623.

Thomson, Edward T.: *See*—
Whittaker, Vernon, and Thomson. 3,296,493.

Thomson, Ely K., to Continental Carbon Co. Apparatus for shaping bags. 3,352,231, 11–14–67, Cl. 100—90.

Thomson, George M., to Central Station Signals, Inc. Plural pen recorder. 3,350,717, 10–31–67, Cl. 346—49.

Thomson, George M., and R. H. Bosworth, to Bendix Corp. Flexible pivot gas flow restriction seal device. 3,323,376, 6–6–67, Cl. 74—5.4.

Thomson, Harris A.: *See*—
Kemppinen, Auvo I., and Thomson. 3,331,711.

Thomson, Henry A.: *See*—
Johnson, Robert B., and Thomson. 3,358,892.

Thomson, Henry (Harry) A., to Honeywell Inc. Retaining apparatus. 3,349,454, 10–31–67, Cl. 24—259.

Thomson Houston-Hotchkiss Brandt, Compagnie Francaise: *See*—
Gerlach, Pierre. 3,327,156.

Thomson, John R.: *See*—
Greenberg, Percy. 3,310,338.

Thomson, John S.: *See*—
Corliss, Duncan S., Keast, and Thompson. 3,352,785.
Haycock, George W. 3,299,452.

Thomson, John S. Cranes. 3,353,687, 11–21–67, Cl. 212—58.

Thomson, Kenneth W.: *See*—
Bundschuh, John J., and Thomson. 3,315,911.

Thomson Machinery, The: *See*—
Duncan, Richard A. 3,358,830.

Thomson, Marvin G.: *See*—
Musschoot, Albert, and Thomson. 3,335,861.
Musschoot, Albert, and Thomson. 3,358,815.

Thomson, Osborne M. Filter cigarette. 3,359,988, 12–26–67, Cl. 131—10.3.

Thomson, Quentin R. Air distributor. 3,302,550, 2–7–67, Cl. 98—40.

Thomson, Quentin R., to Krueger Mfg. Co. Air diffusing register. 3,358,577, 12–19–67, Cl. 98—40.

Thomson, Richard N. to E. I. du Pont de Nemours and Co. Method for making a filtering medium from plexifilamentary material. 3,346,682, 10–10–67, Cl. 264—93.

Thomson & Schovee: *See*—
Cole, Thomas D. 3,356,780.

Thomson, Wallace B., to United States of America, Atomic Energy Commission. Fuel element for a nuclear reactor. 3,321,378, 5–23–67, Cl. 176—73.

Thomson, Walter G., to International Business Machines Corp. Round corner cutting machine for record cards. 3,357,289, 12–12–67, Cl. 83—389.

Thomson, Winslow E.: *See*—
Kirkpatrick, Glen A. 3,323,832.

Thon, Donald G., to The M. T. & D. Co. Cutter suspension apparatus for mower. 3,357,165, 12–12–67, Cl. 56—25.4.

Thon, Ronald A., to Molon Motor & Coil Corp. Pump. 3,335,668, 8–15–67, Cl. 103—103.

Thonemann, Peter C., P. A. Davenport, and H. A. Blevin, to United Kingdom Atomic Energy Authority. Plasma containment apparatus comprising rotating and fixed magnetic fields. 3,315,114, 4–18–67, Cl. 313—161.

Thöner, Robert. Foldable warm air and steam bath assembly. 3,351,956, 11–14–67, Cl. 4—160.

Thonet Industries, Inc.: *See*—
Giacomini, Jean P. 3,335,990.

Thor Hammer Co. Ltd.: *See*—
Jeffery, Winston E. P., and Stephens. 3,320,986.

Thorburn, David H., to The Powers Regulator Co. Air bleed nozzle. 3,297,044, 1–10–67, Cl. 137—82.

Thorburn, David H., to The Powers Regulator Co. Pneumatic control unit. 3,319,644, 5–16–67, Cl. 137—85.

Thorburn, David H., to The Powers Regulator Co. Pneumatic-hydraulic pulse actuator. 3,347,461, 10–17–67, Cl. 236—79.

Thorburn, David H., to The Powers Regulator Co. Valve. 3,360,234, 12–26–67, Cl. 251—44.

Thorburn, Milton R.: *See*—
Kavanagh, Arthur J., Koester, Thorburn, and Tackaberry. 3,348,547.

Thoreson-McCosh, Inc.: *See*—
Maus, Arthur E. 3,325,913.
Maus, Arthur E. 3,337,969.

Thorington, Luke, to Duro-Test Corp. Optically pumped laser with cathodo luminescent pumping light source. 3,349,339, 10–24–67, Cl. 331—94.5.

Thorington, Luke, and D. G. Trutner, to Duro-Test Corp. Electric lamp mounting. 3,356,984, 12–5–67, Cl. 339—72.

Thorman, Richard F. Soap cake holder. 3,346,228, 10–10–67, Cl. 248—316.

Thormer, Joachim, H. Zoebelein, and M. Dolur, to Henkel & Cie, G.m.b.H. Reaction product of hydroxy-containing polymer and polycarboxylic acid anhydride, and water soluble salts thereof. 3,321,429, 5–23–67, Cl. 260—29.4.

Thorn Electrical Industries Ltd.: *See*—
Chapman, Donald F. 3,350,605.
Kember, Raymond C., and Allison. 3,345,451.
McLintic, William J. 3,333,139.

Thorn, Frank H., to Phillips Petroleum Co. Apparatus and process for the coagulation of rubber latex and carbon black. 3,335,200, 8–8–67, Cl. 260—746.

Thorn, Richard H. W., and J. T. Franek, to H. G. Heinz Co., Ltd. Apparatus for successively introducing flowable material into containers. 3,336,956, 8–22–67, Cl. 141—83.

Thorn, Richard P., to Lord Corp. Damped tube. 3,314,502, 4–18–67, Cl. 188—1.

Thorn, Richard P., to Lord Corp. Vibration damping mounting system. 3,330,519, 7–11–67, Cl. 248—358.

Thorn, Roy W., Jr., D. E. Warren, R. H. Perkins, G. M. Rickman, and D. M. Norris, to W. R. Grace & Co. Method for cleaning evaporator tubes. 3,338,745, 8–29–67, Cl. 134—22.

Thornander, Gote C. I., to Elektriska Svetsningsaktiebolaget. Electrically insulating supporting means for a railway rail. 3,315,893, 4–25–67, Cl. 238—283.

Thornberg, Dean S., and R. M. Jepperson, to Montek Division of Model Engineering and Mfg. Corp. Decoder and reference burst pulse spacing monitor circuit. 3,332,018, 7–18–67, Cl. 325—322.

Thornberry, John R.: *See*—
Titus, Leslie, Thornberry, and Breuer. 3,351,428.

Thornbury, Sydney G.: *See*—
Jackson, Clark E., and Thornbury. 3,296,777.

Thorndike, Edward M., to United States of America, Navy. Suspended-drop current meter. 3,336,803, 8–22–67, Cl. 73—194.

Thorne, Clarence P.: *See*—
Cox, Norman R., Fischer, and Thorne. 3,295,433.

Thorne, Gale H., Sr.: *See*—
Barrett, William G., Johnson, and Thorne. 3,320,410.
Fox, Harold L., Thorne, and Wood. 3,336,931.

Thorne, Robert L.: *See*—
Kleist, Robert A., Kurth, and Thorne. 3,349,373.

Thornell, Ernest L., to Fisher-Price Toys, Inc. Wheeled toy telephone. 3,305,966, 2–28–67, Cl. 46—33.

Throner, Guy C., Jr., to Aerojet-General Corp. Composite casing for fragmentation-type explosive weapon and method of forming same. 3,298,308. 1–17–67, Cl. 102—67.

Thorner, Robert H. Odometer and speed indicating mechanism. 3,295,376, 1–3–67, Cl. 73—490.

Thorner, Robert H. Automotive speed control apparatus. 3,305,042, 2–21–67, Cl. 180—82.1.

Thorner, Robert H. Defrosting control for a refrigeration device. 3,321,928, 5–30–67, Cl. 62—140.

Thorner, Robert H. Automotive speed control system. 3,322,227, 5–30–67, Cl. 180—108.

Thorner, Robert H. Automotive speed control system. 3,343,423, 9–26–67, Cl. 73—535.

Thorner, Robert H. Vehicle speed regulator device. 3,348,625, 10–24–67, Cl. 180—108.

Thorner, Robert H. Vehicle speed regulating device. 3,348,626, 10–24–67, Cl. 180—108.

Thorner, Robert H. Control device for refrigeration system. 3,350,894, 11–7–67, Cl. 62—140.

Thorne-Thomsen, Thomas, to Olin Mathieson Chemical Corp. Tube coupling having split ring locking means. 3,352,576, 11–14–67, Cl. 285—169.

Thorngren, Walter A., Sr. Utensil holder. 3,358,586, 12–19–67, Cl. 99—402.

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Trimble, Stanley C., Hewitt, and Thornhill. 3,353,974.

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Thornhill, William J., to Phillips Petroleum Co. Fluid dispenser with movable trap chamber having double ended ejector. 3,323,687, 6–6–67, Cl. 222—219.

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Thornton, James E., and S. R. Cray, to Control Data Corp. Simultaneous multiprocessing computer system. 3,346,851, 10–10–67, Cl. 340—172.5.

Thornton, James R. Atlas Chemical Industries, Inc. Salts of nitroform with hydrazines. 3,297,747, 1–10–67, Cl. 260—501.

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Thorp, James H., to The Smyth Mfg. Co. Back gluing mechanism in a book casing-in machine. 3,326,179, 6–20–67, Cl. 118—241.

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Thorpe, Walter H. Automatic fluid transmission. 3,351,168, 11–7–67, Cl. 192—61.

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Thorup, Richard M., and A. H. Hunter, to Chevron Research Co. Increasing saccharide content in sugar beets. 3,318,-678, 5–9–67, Cl. 71—2.5.

Thostrup, Harry, to Elektriska Soetsningsaktiebolaget. Composite hose unit for supplying a welding gun with a welding wire or wires, shielding gas, welding current and compressed gas. 3,324,225, 6–6–67, Cl. 174—47.

Thostrup, Harry, and J. Fjaertoft, to Elektriska Svetsnings-aktiebolaget. Apparatus for gas-shielded metal-arc welding. 3,319,042, 5–9–67, Cl. 219—130.

Thourel, Leo, to CSF-Compagnie Generale de Telegraphie Sans Fil. Stepped beam slot-antenna array. 3,311,917, 3–28–67, Cl. 343—754.

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Thrush, James E., to Dresser Industries, Inc. Gas metering and burner system with means for preventing backflow. 3,302,688, 2–7–67, Cl. 158—115.

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Thuillier, Jean-Eugene, P. Rumpf, and G. Thuillier, to Centre National de la Recherche Scientifique and Institut National d'Hygiene. Compositions and methods for treating depression. 3,313,689, 4–11–67, Cl. 167—65.

Thuillier, Jean-Eugene, P. Rumpf, and G. Thuillier, to Centre National de la Recherche Scientifique and Institut National d'Hygiene. Acetylsalicylic acid derivatives. 3,334,129, 8–1–67, Cl. 260—469.

Thulman, Robert D. Hooded fireplace construction. 3,359,-968, 12–26–67, Cl. 126—120.

Thum, Helmut, to Henschel-Werke A.G. Hydrostatic positioning of worktables of machine tools. 3,355,990, 12–5–67, Cl. 90—21.

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Thurman, Carl C., Jr., J. S. Scruggs, and F. N. Teumac, to The Dow Chemical Co. Fluorinated copolymers of alkylene imines. 3,341,476, 9–12–67, Cl. 260—2.

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Thyen, Eberhard H., to Corning Glass Works. Self locking partition assembly. 3,330,464, 7–11–67, Cl. 229—15.

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Thybolt, Andreas. Freely supported deck-construction. 3,333,-374, 8–1–67, Cl. 52—80.

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Tickle, Andrew C., to International Computers and Tabulators Ltd. Thin film information transfer devices. 3,357,000, 12–5–67, Cl. 340—174.

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Tidball, Robert A., W. M. King, and P. S. Otten, to Baldwin-Lima Hamilton Corp. Sea water scaling constituents removal and flash distillation. 3,340,159, 9–5–67, Cl. 203—7.

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Tien, Ping K., to Bell Telephone Laboratories, Inc. Light modulating system. 3,321,714, 5–23–67, Cl. 331—94.5.

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Tillery, Hubert B., and Tillery. 3,353,727.

Tillery Metal Products Co., Inc., The: *See*—
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Tilles, Harry, to Stauffer Chemical Co. Process for making chloroformates with amines as catalysts. 3,299,114, 1–17–67, Cl. 260—455.

Tilles, Harry, and J. Antognini. Method of combating weeds. 3,298,817, 1–17–67, Cl. 71—2.6.

Tillett, Thomas J., and B. Auerbach, to Link-Belt Co. Bar screen cleaning device. 3,358,837, 12–19–67, Cl. 210—159.

Tilley, Alton G., and R. M. Wall, to E. I. du Pont de Nemours and Co. Article and apparatus for conveying particulate matter pneumatically. 3,310,349, 3–21–67, Cl. 302—59.

Tilley, David R.: *See*—
Brice, John C., Tilley, Van Gurp, and Berghout. 3,305,819.

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Doering, Von E., Saylgh, and Tilley. 3,296,306.
Saylgh, Adnan A. R., and Tilley. 3,311,654.
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Tilley, James N., and A. A. R. Saylgh, to The Upjohn Co. Process for the preparation of 2,2-diaryl-N,N-disubstituted acetamides. 3,296,304, 1–3–67, Cl. 260—558.

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Tillman, Ernest R. Trolley door combination. 3,312,016, 4–4–67, Cl. 49—218.

Tillman, Henry R.: *See*—
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Tillmann, Peter, Kulling, and Hitzemann. 3,355,253.
Tillmann, Peter, Kulling, and Hitzemann. 3,360,341.

Tillmann, Peter, deceased (by M. Tillmann, sole heir), A. Kulling, and G. Hitzemann, to Titangesellschaft m.b.H. Multi-tube burner. 3,355,253, 11–28–67, Cl. 23—277.

Tillmann, Peter, deceased (by M. Tillmann, sole heir), A. Kulling, and G. Hitzemann, to Titangesellschaft m.b.H. Means for the production of fine particle size titanium dioxide. 3,360,341, 12–26–67, Cl. 23—277.

Tillmanns, Kenneth B., and D. E. Penniman, to General Dynamics Corp. Module support structure. 3,305,705, 2–21–67, Cl. 317—100.

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Tillotson, Charles C., and K. E. James, to The Procter & Gamble Co. Process for drilling boreholes in the earth utilizing amine oxide surfactant foaming agent. 3,303,896, 2–14–67, Cl. 175—69.

Tillotson, David S., to Newman-Green, Inc. Dip tube. 3,301,438, 1–31–67, Cl. 222—41.

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Tillotsons (Liverpool) Ltd.: *See*—
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Tills, John W., to The Tills Engineering Co., Ltd. Transporting and dispensing arrangement. 3,332,582, 7–25–67, Cl. 222—189.

Tillson, Charles H., to The B. F. Goodrich Co. Roof expansion joint. 3,355,846, 12–5–67, Cl. 52—58.

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Preletz, Michael O., and Tillung. 3,336,508.

Tilly, Ralph R.: *See*—
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Slatin, Harvey L. 3,297,554.

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Timm, Harold A., to Dominion Magnesium Ltd. Method and apparatus for producing high purity calcium. 3,301,665, 1–31–67, Cl. 75—67.

Timm, Walter, to Mine Safety Appliances Co. Inflating device for inflatable splints. 3,312,213, 4–4–67, Cl. 128—87.

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Timmerman, Leonard A. Knock-down table and desk construction. 3,306,692, 2–28–67, Cl. 312—231.

Timmerman, Robert, to Radiation Dynamics, Inc. Method and apparatus for expanding plastic tubing. 3,296,344, 1–3–67, Cl. 294—95.

Timmermans, Abraham, and T. Tol, to North American Philips Co., Inc. Green radiation lamp for optical maser. 3,317,778, 5–2–67, Cl. 313—225.

Timmermans, Franciscus J. H., and J. P. van der Helm, to North American Philips Co. Inc. High-frequency furnace for high-frequency heating by means of ultra-high frequencies. 3,304,399, 2–14–67, Cl. 219—10.55.

Timmermans, Frederik A. G., and A. Snel, to Nederlandse Organisatie Voor Toegepast-Natuur-Wetenschappelijk Onderzoek Ten Vehoeve Van Nijverheid, Handel En Verkeer. Device for measuring two consecutive magnitudes as electrical signals. 3,348,142, 10–17–67, Cl. 324—99.

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Timms, Leon M. Packing unit. 3,330,470, 7–11–67, Cl. 229—74.

Timms, Leon M. Packing unit with viewing window. 3,330,471, 7–11–67, Cl. 229—74.

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Tinfow, Lionel, and S. V. Winton. Door bottom weather strip. 3,324,598, 6–13–67, Cl. 49—488.

Tinfow, Lionel, and S. V. Winton. Cantilevered wall shelf support. 3,325,129, 6–13–67, Cl. 248—243.

Ting, Chiu H., to International Business Machines Corp. Thermoplastic recording system. 3,308,444, 3–7–67, Cl. 340—173.

Tingquist, Stanley C., A. M. Talbot, and W. H. Hagedorn, to Howe Sound Co. Vacuum melting and casting apparatus. 3,336,971, 8–22–67, Cl. 164—258.

Tini, Anthony, and C. E. Hussey, Jr., to Westinghouse Electric Corp. Hollow conical fuel spray nozzle for pressurized combustion apparatus. 3,302,399, 2–7–67, Cl. 60—39.74.

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Tinsley, Samuel W., Jr., and E. Marcus, to Union Carbide Corp. Novel epoxides, methods of making same, and polymers thereof. 3,311,643, 3–28–67, Cl. 260—348.

Tinsley, Samuel W., Jr., and E. Marcus, to Union Carbide Corp. Cyclic epoxides and compositions containing same. 3,314,896, 4–18–67, Cl. 260—2.

Tinsley, Samuel W., Jr., and D. L. MacPeek, to Union Carbide Corp. 2-hydrocarbon-5,6-epoxy-1,3-dioxepanes. 3,337,587, 8–22–67, Cl. 260—338.

Tinsley, Samuel W., D. L. MacPeek, and P. S. Starcher, to Union Carbide Corp. Hydration of bicyclo-(2.2.1.) heptenes and related nortricyclenes. 3,345,419, 10–3–67, Cl. 260—617.

Tinsley, William B. Swab cup adapter. 3,343,461, 9–26–67, Cl. 92—180.

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Tipostsch, Donald G., to Beckman Instruments, Inc. Thermocouple radiation detector with and integrator in the feedback path of the amplifier to compensate for the integrating effect of the detector. 3,335,279, 8–8–67, Cl. 250—83.3.

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Tippett, Ruth R. Foldaway bar stool. 3,330,609, 7–11–67, Cl. 312—235.

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Tishler, Max, to Merck & Co., Inc. Dibenzocycloheptene compounds and processes for preparing the same. 3,317,582, 5–2–67, Cl. 260—465.

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Tishler, Max, N. G. Steinberg, and R. F. Hirschmann, to Merck & Co., Inc. 4,6-pregnadieno-[3,2-c]pyrozoles and processes of preparing them. 3,300,483, 1–24–67, Cl. 260—239.5.

Tishler, Max, J. M. Chemerda, and J. Kollonitsch, to Merck & Co., Inc. Dibenzocycloheptenes and processes for the preparation thereof. 3,312,738, 4–4–67, Cl. 260—556.

Tiskus, John R., and J. H. Wilson, to United States Steel Corp. System for controlling the liquid level in a continuous-casting mold or the like. 3,300,820, 1–31–67, Cl. 22—57.2.

Tisnovsky, Miroslav, to Naradi, narodni podnik. Hydraulic pressure-multiplier. 3,354,640, 11–28–67, Cl. 60—54.5.

Tiss, Irving D. Garment shaping bust form. 3,346,149, 10–10–67, Cl. 223—66.

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Tomiyama, Shinichi, H. Marumo, and M. Takai. Method of suppressing electrostatic charges in synthetic resins and fibers. 3,297,653, 1-10-67, Cl. 260—75.

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Tomiyasu, Kiyo, to General Electric Co. Reflectionless input resonant laser amplifier. 3,327,232, 6-20-67, Cl. 330—4.3.
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Tomlinson, George H., II. Continuous sodium sulfide pulping of cellulosic material. 3,347,739, 10-17-67, Cl. 162—30.
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Tomono, Masami, H. Ueda, and H. Kimura, to Hitachi, Ltd. Welding method. 3,351,733, 11-7-67, Cl. 219—117.
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Tompkins, David R., and L. L. Council, to Plastic Applicators, Inc. Rotating pipe inspection assembly with solenoid operated means to raise and lower the sensor means. 3,299,350, 1-17-67, Cl. 324—37.
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Tongs, Derek J., to Koch Processes Ltd. Gelatin printing plates with thermoplastic underlayer. 3,356,501, 12-5-67, Cl. 96—36.3.
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Toomey, John B., Jr., and W. F. Frizzell, to Valve Engineering Co. Photographic flash bulb. 3,310,967, 3-28-67, Cl. 67—31.
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Topliss, John G., M. H. Sherlock, and N. Sperber, to Schering Corp. Novel process for the preparation of dihydrobenzothiadiazines. 3,326,908, 6–20–67, Cl. 260—243.
Topliss, John G., N. Sperber, and A. A. Rubin, to Schering Corp. Novel 1,2,4-benzothiadiazine-1,1-dioxide derivatives. 3,345,365, 10–3–67, Cl. 260—243.
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Tordoff, Ledger J., to McGraw-Edison Co. Conductor termination with stress distribution means. 3,323,097, 5–30–67, Cl. 339—91.
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Torii, Yasunosuke, to Tokyo Shibaura Electric Co., Ltd. Voltage regulating device. 3,308,369, 3–7–67, Cl. 321—16.
Torii, Yasunosuke, to Tokyo Shibaura Electric Co. Control system for electric cars using controlled rectifier elements. 3,325,714, 6–13–67, Cl. 318—269.
Torii, Yasunosuke, to Tokyo Shibaura Electric Co., Ltd. Control device for electric cars including SCR short circuiting of a starting resistance. 3,341,759, 9–12–67, Cl. 318—422.
Torii, Yasunosuke, to Tokyo Shibaura Electric Co., Ltd. Voltage control device. 3,350,630, 10–31–67, Cl. 323—43.5.
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Torley, Robert E., and D. J. Berets, to American Cyanamid Co. Information storage and processing using coded inks. 3,340,982, 9–12–67, Cl. 197—1.
Tormolen, Hans H. Mechanism for converting predetermined input speed to random output speed. 3,299,228, 1–17–67, Cl. 200—18.
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Tornqvist, Erik, to Esso Research and Engineering Co. Method for the formation of malleable metal powders. 3,301,-494, 1–31–67, Cl. 241—22.
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Torok, Steven J., to Ampex Corp. Apparatus for reducing frictional wear of a transducing head against a magnetic tape. 3,333,065, 7–25–67, Cl. 179—100.2.

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Torossian, Edouard. Hydropneumatic control device. 3,359,-728, 12–26–67, Cl. 60—54.5.
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Torr, David. Disposable article having a layer of artificial absorbent fibers and supporting sheet. 3,347,236, 10–17–67, Cl. 128—284.
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Torrance, Gordon A., to Jervis B. Webb Co. Carrier stop and track hangar for power and free conveyors. 3,347,171, 10–17–67, Cl. 104—172.
Torrance, Gordon A., and C. A. Dehne, to Jervis B. Webb Co. Lift section for power and free conveyor. 3,326,139, 6–20–67, Cl. 104—96.
Torrence, George W. Plant watering systems and control means therefor. 3,357,129, 12–12–67, Cl. 47—38.
Torrence, James A., to National Video Corp. Cathode ray tube with improved shadow mask mounting spring arrangement. 3,343,024, 9–19–67, Cl. 313—92.
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Toyosato, Tomoyoshi, M. Ochiai, H. Hagimoto, H. Tamura, and T. Kamikado, to Takeda Chemical Industries, Ltd. Method of regulating growth of plants. 3,326,662, 6–20–67, Cl. 71—2.5.
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Trinkler, Alfred, A. Stieglitz, and L. F. Jumelle, to Societe Nationale d'Etude et de Construction. Single-control regulating system for afterburning by-pass turbojets. 3,298,180, 1–17–67, Cl. 60—237.
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Tritsmans, Paul A., to Societe Industrielle Belge des Petroles S.A. Separation of waxy hydrocarbons from oils by flotation. 3,347,775, 10–17–67, Cl. 208—28.
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Troeppl, William M., and G. A. Petersen, ½ to G. A. Petersen, and A. E. Petersen. Reversible digging tooth with three cutting edges. 3,300,883, 1–31–67, Cl. 37—142.
Troeppl, William M., and J. G. Benetti, ½ to G. A. Petersen, and ½ to A. E. Petersen. Notched tooth and retainer. 3,305,954, 2–28–67, Cl. 37—142.
Troeppl, William M., and J. G. Bennetti, ½ to G. A. Petersen, and ½ to A. E. Petersen. Tooth and holder having detents and resilient retaining means. 3,312,003, 4–4–67, Cl. 37—142.
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Trott, Winfield J., to United States of America, Navy. Distributed coupling transducer. 3,296,585, 1–3–67, Cl. 340—10.
Trott, Winfield J., to United States of America, Navy. Distributed coupling transducer. 3,321,738, 5–23–67, Cl. 340—10.
Trotta, Leonard J. Automatic multiple wire wrapping machine. 3,297,059, 1–10–67, Cl. 140—3.
Trotter, Ide P., Jr., R. P. Larkins, and W. O. Webber, to Esso Research and Engineering Co. Computer control method for production of butyl rubber. 3,321,280, 5–23–67, Cl. 23—230.
Trotter, John C., to United States of America, Navy. Duct rotation system for VTOL aircraft. 3,360,217, 12–26–67, Cl. 244—12.
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Trouilhet, Maurice M. A., to Calor Appareils Electro-Domestiques. Electric hair-driers. 3,343,275, 9–26–67, Cl. 34—99.
Trouilhet, Maurice M. A., to Calor Appareils Electro-Domestiques. Water-spray laundry irons. 3,344,541, 10–3–67, Cl. 38—78.
Trouilhet, Maurice M. A., to Calor Appareils Electro Domestiques. Propeller fans with variable-pitch blades. 3,360,051, 12–26–67, Cl. 170—160.43.
Trout, Charles M. Safety circuit for electrical apparatus. 3,351,813, 11–7–67, Cl. 317—18.
Trout, Thomas E. Tree and brush rotary saw attachment. 3,343,575, 9–26–67, Cl. 144—34.
Troutman, Paul H., to United States of America, Navy. Automatic gain control in a magnetic amplifier. 3,359,501, 12–19–67, Cl. 330—8.
Troutner, Arthur L. Composite truss joist having chords and links of adjustable angle. 3,314,209, 4–18–67, Cl. 52—639.
Troutner, Arthur L. Long span, high load, composite truss joist. 3,330,087, 7–11–67, Cl. 52—693.
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Trowbridge, James R., to Colgate-Palmolive Co. Detergent composition in solid form containing a synergistic mixture of CMC and PVP. 3,318,816, 5–9–67, Cl. 252—137.
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Tucker, Chester D. Water amusement device simultating an animal. 3,344,765, 10–3–67, Cl. 115—34.

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Tucker, Council A., and J. C. Layton, to Towlsaver, Inc. Dispenser for roll toweling. 3,319,855, 5–16–67, Cl. 225—67.

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Wyatt, William K. 3,327,462.

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Turk, James R., to V. K. Smith. Water pump motor constructions. 3,333,544, 8-1-67, Cl. 103—87.

Turk, James R., to V. K. Smith. Electrical plug and connector. 3,350,587, 10-31-67, Cl. 310—71.

Turk, James R., to V. K. Smith. Control box assembly. 3,353,-068, 11-14-67, Cl. 317—99.

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Turner, John F., W. F. Ziegler, L. E. Thompson, and A. R. Jessen, to Walter Kidde & Co., Inc. Personnel ejection system for aircraft. 3,352,518, 11-14-67, Cl. 244—122.

Turner, John H., E. W. Downs, and S. E. Harson, to Hardman & Holden Ltd. Metal-acyloxy compounds and method of preparing same. 3,296,242, 1-3-67, Cl. 260—105.

Turner, John L.: *See*—
Germeshausen, Kenneth J., and Turner. 3,350,602.
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Taylor, Joseph M., and Turner. 3,298,716.

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Cassano, James R., and Turner. 3,331,592.
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Turner, Mason M., to Shell Oil Co. 2-cyanoallyl esters of dithiocarbamic acid as soil fungicides. 3,310,465, 3-21-67, Cl. 167—30.

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Turner, Ralph S. Flower holder for caskets. 3,351,310, 11-7-67, Cl. 248—27.8.

Turner, Ralph W., Jr., to Improved Machinery Inc. Center valve filter. 3,327,863, 6-27-67, Cl. 210—392.

Turner, Richard F., D. A. Nehrig, and H. I. Leon, to United States of America, Atomic Energy Commission. Fuel element. 3,318,779, 5-9-67, Cl. 176—71.

Turner, Robert J., and C. M. Lutes, Jr., to Morton International Inc. Process for polymerizing an ethylenically unsaturated amine-containing monomeric mixture. 3,296,-167, 1-3-67, Cl. 260—29.6.

Turner, Robert W., to Turner Applicator Co. Coating dispenser and applicator. 3,305,887, 2-28-67, Cl. 15—50.

Turner, Roger S., and C. O. Drauglis, to Kulicke and Soffa Mfg. Co. Multipoint probe apparatus for electrically testing multiple surface points within small zones. 3,345,567, 10-3-67, Cl. 324—158.

Turner, Roland J., to United States of America, Army. Nonlinear source switch driver. 3,345,519, 10-3-67, Cl. 307—88.5.

Turner, Roscoe E., and N. A. Leuker, 20% each to P. H. Shuidan, K. F. Ross, and D. C. Burton. Ballasted vehicle support means and ballast therefor. 3,312,265, 4-4-67, Cl. 152—330.

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Turner, Thomas R., to United States of America, National Aeronautics and Space Administration. Double hinged flap. 3,321,157, 5-23-67, Cl. 244—42.

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Turner, Wesley F. Holder for collapsible tubes. 3,326,420, 6-20-67, Cl. 222—103.

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Turpin, Charles H., and L. J. Klitzke, to The Pillsbury Co. Top closure for bag. 3,295,744, 1-3-67, Cl. 229—62.

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Turpin, Eugene W. Clamping apparatus for open center tire rims. 3,348,593, 10-24-67, Cl. 144—288.

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Turpin, William V., and O. E. Lotts. Apparatus for expanding an elastic loop member and moving the same to a given position. 3,347,083, 10-17-67, Cl. 72—393.

Turquois, Rene F. Detonator with adjustable delay and built-in setting device. 3,352,237, 11-14-67, Cl. 102—28.

Turrentine, Ports W. Multiple hook assembly. 3,331,151, 7-18-67, Cl. 43—43.2.

Turro, Jerome C. Holder for reserve toilet tissue roll. 3,297,265, 1–10–67, Cl. 242—55.2.

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Hollihan, John P., Reed, and Turton. 3,345,718.

Turunen, William A., P. T. Vickers, and J. R. Mondt, to General Motors Corp. Purging seal. 3,338,300, 8–29–67, Cl. 165—5.

Turzillo, Lee A. Method and means for bracing or bolstering subaqueous structures. 3,345,824, 10–10–67, Cl. 61—35.

Turzillo, Lee A. Method for installing anchoring or supporting columns in situ. 3,354,657, 11–28–67, Cl. 61—53.5.

Turzillo, Lee A. and K. McKinzie. Apparatus for pumping grout. 3,323,462, 6–6–67, Cl. 103—49.

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Tuska, James W., to Radio Corp. of America. Integrated logic arrays employing insulated-gate field-effect devices having a common source region and shared gates. 3,355,598, 11–28–67, Cl. 307—88.5.

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Tutch, David E., to International Harvester Co. Air control device for carbureted engines. 3,342,454, 9–19–67, Cl. 251—288.

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Tuthill, Edward G., to Collins Radio Co. Clock timed reference gated pulse generating system for a TACAN beacon. 3,296,618, 1–3–67, Cl. 343—106.

Tuthill, Jay D., to Mannington Mills, Inc. Manufacture of hard-surfaced coverings and decorative clips therefor. 3,360,414, 12–26–67, Cl. 156—264.

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Neubauer, Emil T. 3,303,784.
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Tuttle, Elvin E., to Motor Wheel Corp. Method of making a sintered impregnated metal brake drum. 3,332,774, 7–25–67, Cl. 75—200.

Tuttle, Eugene F. Stud brace for building construction. 3,332,196, 7–25–67, Cl. 52—693.

Tuttle, Eugene F. Self-tensioning stud brace. 3,335,993, 8–15–67, Cl. 248—351.

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Tuttle, Wainwright, to Commercial Filters Corp. Filter test method and apparatus. 3,336,793, 8–22–67, Cl. 73—40.

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Tuveil, Melvin E. Purification of copper powder. 3,313,616, 4–11–67, Cl. 75—.5.

Tuvert, Johan E. Bedding device. 3,355,748, 12–5–67, Cl. 5—334.

Tuvert, Johan E. Button fastener. 3,359,603, 12–26–67, Cl. 24—90.

Tuwiner, Sidney B. Water extraction by freezing. 3,314,881, 4–18–67, Cl. 210—59.

Tuwiner, Sidney B., to Treadwell Corp. Recovery of gold, silver, copper and zinc by alkaline cyaniding with electrodialysis. 3,357,823, 12–12–67, Cl. 75—135.

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Tveten, John L., to Esso Research and Engineering Co. Production of tris(chloromethyl)mesitylene. 3,336,402, 8–15–67, Cl. 260—651.

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Tveter, Elmer C., to The Dow Chemical Co. Grinding of solids. 3,295,766, 1–3–67, Cl. 241—15.

Tveter, Elmer C., to The Dow Chemical Co. Sink-float separation process. 3,348,675, 10–24–67, Cl. 209—5.

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Twelis, Robert G., to Pittsburgh Plate Glass Co. Method for producing non-glare, low specular reflecting films on glass articles. 3,326,715, 6–20–67, Cl. 117—124.

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Twickler, George H., to Stowe-Woodward, Inc. Structure and manufacture of bowling balls. 3,350,252, 10–31–67, Cl. 156—228.

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Twigg, Robert W., to Midland Engineering and Machine Co. Tape-wrapping machine. 3,350,255, 10–31–67, Cl. 156—475.

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Twin Disc Clutch Co.: *See*—
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Aschauer, George R. 3,324,981.
Aschauer, George R. 3,328,961.
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Hilpert, Conrad R. 3,352,395.
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Hilpert, Conrad R. 3,360,087.

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Owen, Nathan B. 3,327,775.

Twining, Edward M., T. M. Dunkle, and T. P. Campbell; said Dunkle assor. to said Twining. Method and apparatus for testing soil corrosivity or resistivity. 3,337,798, 8–22–67, Cl. 324—65.

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Popper, Jakhin B. 3,343,426.

Twiss, Sumner B., and E. J. Sydor, to Chrysler Corp. Friction elements and methods of making the same. 3,305,519, 2–21–67, Cl. 260—41.5.

Twist, Walter, and H. E. Haigh, to British Titan Products Co. Ltd. Apparatus for pulverising. 3,315,900, 4–25–67, Cl. 241—39.

Twitchett, Harry J.: *See*—
Allport, Dennis C., Camlen, Corran, Eaton, and Twitchett. 3,320,190.

Twohey, Lewis W. Storm warning device. 3,336,798, 8–22–67, Cl. 73—170.

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Twomey, Edgar F., Jr., to E. F. Twomey Co., Inc. Method of setting up and applying adhesive transfers. 3,297,507, 1–10–67, Cl. 156—240.

Twomey, Thomas J., to General Electric Co. Sound suppressing mounting for electric induction apparatus. 3,312,920, 4–4–67, Cl. 336—100.

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Makrides, Alkis C., Wright, and Jewett. 3,350,846.

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Tye, Gene: *See*—
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Tygart, William H., to Lockheed Aircraft Corp. Vibrating reed frequency responsive device. 3,336,529, 8–15–67, Cl. 324—70.

Tygenhof, Charles. Automobile radiator cap. 3,338,457, 8–29–67, Cl. 220—44.

Tyhurst, James G., to Certain-Teed Products Corp. Process for forming a laminated plastic structure. 3,334,001, 8–1–67, Cl. 156—228.

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Tyler, Henry P., to The Bendix Corp. Pump. 3,306,209, 2–28–67, Cl. 103—6.

Tyler, Hugh J., to Robertshaw Controls Co. Control device and parts therefor or the like. 3,341,119, 9–12–67, Cl. 236—51.

Tyler, Hugh J., and D. G. Wolfe, to Robertshaw Controls Co. Control device and parts therefor or the like. 3,316,375, 4–25–67, Cl. 200—140.

Tyler, Hugh J., and D. G. Wolfe, to Robertshaw Controls Co. Calibrated control device and method. 3,358,494, 12–19–67, Cl. 73—1.

Tyler, Nelson, to NTT Enterprises, Inc. Universal mount. 3,352,521, 11–14–67, Cl. 248—123.

Tyler, Ronald A., to Canadian Patents and Development Ltd. Gas turbine. 3,318,574, 5–9–67, Cl. 253—59.

Tyler, Stanley R., to Dowty Fuel Systems Ltd. Fuel control systems for gas turbine engines. 3,301,309, 1–31–67, Cl. 158—36.3.

Tyler, Stanley R., to Dowty Fuel Systems, Ltd. Liquid pumping apparatus. 3,309,995, 3–21–67, Cl. 103—11.

Tyler, Stanley R., to Dowty Fuel Systems Ltd. Fuel supply system for jet propulsion engines. 3,316,712, 5–2–67, Cl. 60—39.28.

Tyler, Stanley R., to Dowty Fuel Systems, Ltd. Liquid supply apparatus. 3,323,463, 6–6–67, Cl. 103—97.

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Tyler, William E., III, and J. R. Lovett, to Esso Research and Engineering Co. Difluoroaminoalkyl nitrates. 3,344,167, 9–26–67, Cl. 260—467.

Tyler, William E., III, and J. R. Lovett, to Esso Research and Engineering Co. Process for preparing an NF_2 containing nitrate. 3,346,619, 10–10–67, Cl. 260—467.

Tyler, William E., III, and J. R. Lovett, to Esso Research and Engineering Co. Difluoroamino-substituted nitramines and method of preparation. 3,347,925, 10–17–67, Cl. 260—583.

Tyler, William S. Pulverizing mill. 3,327,955, 6–27–67, Cl. 241—187.

Tylisz, Eugene R., to Clark Equipment Co. Door seal construction. 3,341,975, 9–19–67, Cl. 49—485.

Tylle, John A. Combination disposable fountain toothbrush dentifrice dispenser and oral rinse container. 3,356,095, 12–5–67, Cl. 132—84.

Tyndale, Thomas C. Audio-visual device. 3,304,637, 2–21–67, Cl. 40—28.1.

Tyndall, Richard T., to Castle & Cooke Inc. Valve for conveyors. 3,315,792, 4–25–67, Cl. 198—213.

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Tyrack, Donald P. Motorized water board. 3,340,845, 9–12–67, Cl. 115—70.

Tyran, Leo W., to E. I. du Pont de Nemours and Co. Composition containing wax, ethylene-vinyl acetate copolymer, and polyisobutylene. 3,321,427, 5–23–67, Cl. 260—28.5.

Tyran, Leo W., to E. I. du Pont de Nemours and Co. Heat sealing compositions containing petroleum wax and a blend of ethylene polymers. 3,355,405, 11–28–67, Cl. 260—28.5.

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Tyrner, Joseph M., to Allied Chemical Corp. Cartridge heater constructions including extrusion dies. 3,335,459, 8–15–67, Cl. 18—12.

Tyrrell, Albert R., and M. S. Hunt, to Bristol Siddley Engines Ltd. Rocket engines. 3,349,566, 10–31–67, Cl. 60—260.

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Tyrrell, Arthur J., to North American Philips Co., Inc. Magnetic filter. 3,343,676, 9–26–67, Cl. 210—86.

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Tyson, George H. Temperature indicating apparatus. 3,357,248, 12–12–67, Cl. 73—342.

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Tyszewicz, Wieslaw J., to Northern Electric Co. Ltd. Method and apparatus for testing a dielectric material in the presence of a gas by moving the material with a sufficient velocity to ionize the gas. 3,321,703, 5–23–67, Cl. 324—54.

Tytus, Francis J., and T. D. Striggles, to The Chemical and Industrial Corp. Apparatus for making spherical pellets of water soluble substances. 3,333,297, 8–1–67, Cl. 18—1.

Tytus, Hulbert T. Fluid weight control meter. 3,335,807, 8–15–67, Cl. 177—79.

Tyzack, Harold, to Motorola, Inc. Transistorized turn direction indicator circuit. 3,343,124, 9–19–67, Cl. 340—81.

Tzschirntsch, Paul, to Veb Kabelwerk Oberspree (KWO). Insulating joint. 3,355,191. 11–28–67, Cl. 285—52.

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UID Electronics Corp.: *See*—
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UOP Process Division (a division of Universal Oil Products Co.): *See*—
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U.S.A.P. Utensileria Speciale Alta Precisione: *See*—
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USCO Power Equipment Corp.: *See*—
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Uarco Inc.: *See*—
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Ube-Nitto Kasei Co., Ltd.: *See*—
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Uchida, Akiyoshi: *See*—
Shibukawa, Takashi, and Uchida. 3,322,743.

Uchida, Chikara: *See*—
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Uchida, Hiromu, O. Yanabu, and T. Hada, to Fuji Iron & Steel Co., Ltd. Process for electrolytic chromium-plating steel strips without a bluish tint while using two or more plating tanks. 3,316,160, 4–25–67, Cl. 204—28.

Uchida, Kazuo, K. Miyauchi, and M. Fujimoto, to Yamasa Shoyu Co., Ltd. Preparation of 5′-guanylic acid by fermentation. 3,309,285, 3–14–67, Cl. 195—28.

Uchikoshi, Goji. Control system for a magnetic recorder. 3,347,996, 10–17–67, Cl. 179—100.28.

Uchimaru, Kiyoshi, and Y. Shimono, to Nippon Electric Co., Ltd. Ultra-short-wave dielectric heating equipment. 3,309,489, 3–14–67, Cl. 219—10.75.

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Brace, Lloyd, Jr. 3,337,040.
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Clements, Ralph W. 3,359,681.
Cooper, Albert S., Jr., Murphy, and Sloan. 3,356,446.
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Vadas, Leslie, and R. W. Drake, to FMC Corp. Apparatus for sealing cartons. 3,319,398, 5–16–67, Cl. 53—375.

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Vail, Sidney L., and C. M. Moran, to United States of America, Agriculture. Glyoxal-biscarbamate reaction products. 3,341,550, 9–12–67, Cl. 260—309.7.

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Valyi, Emery I., to Olin Mathieson Chemical Corp. Compound metal structure. 3,302,704, 2–7–67, Cl. 165—170.

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Van Asselt, Robert L., to Radio Corp. of America. Electron multiplier and method of manufacturing dynodes. 3,308,324, 3–7–67, Cl. 313—65.

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Van Benthuysen, John D., and M. B. Arisman, to CTS Corp. Variable resistance control. 3,355,693, 11–28–67, Cl. 338—184.

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Van Blerk, Victor B., to British Nylon Spinners Ltd. Apparatus for treating filamentary material in a fluid. 3,303,546, 2–14–67, Cl. 28—1.

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Van Breugel, Adrianus, to N.V. Hollandse Signaalapparaten. Radar plan-position indicator systems. 3,343,159, 9–19–67, Cl. 343—5.

Van Brocklin, Owen F., to Scovill Mfg. Co. Inflator means for tires and the like. 3,329,180, 7–4–67, Cl. 141—349.

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Van Buren, Harold S., Jr., to United-Carr Inc. Shelf support fastener. 3,332,655, 7–25–67, Cl. 248—235.

Van Buren, Harold S., Jr., to United-Carr Inc. Fastener for securing plastic members to a shaft. 3,338,604, 8–29–67, Cl. 287—53.

Van Buren, Harold S., Jr., to United-Carr Inc. Self-securing fastener. 3,343,441, 9–26–67, Cl. 85—70.

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Vance, Vincent F. Bath tub piping and valve equipment. 3,341,865, 9–19–67, Cl. 4—148.

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Van Dalen, Leonard, and H. C. Disston, Jr., to Seaboard Tools. Automatically adjustable socket wrench. 3,339,439, 9–5–67, Cl. 81—112.

Van Dam, Frans, to Industrie de Oude Delft Optische, N.V. Device for cinematographically recording the screen image of television display tubes. 3,317,663, 5–2–67, Cl. 178—6.7.

Van Damme-van Weele, Marina A., and A. P. van Der Molen, to N.V. Koninklijke Nederlandsche Zoutindustrie. Crystallization of hydrosulfite. 3,298,796, 1–17–67, Cl. 23—302.

Van Dean, Ralph F., to R. N. Miksel Corp. Inflatable bassinets. 3,323,147, 6–6–67, Cl. 5—98.

Van Deberg, Walter H., to Earl A. Thompson Mfg. Co. Energy absorber and method. 3,360,079, 12–26–67, Cl. 188—1.

Van de Castle, John F., J. R. Hooton, and F. P. Baldwin, to Esso Research and Engineering Co. Homogeneous polymerization of vinyl ethers in the presence of a Friedel-Crafts catalyst and an organic nitro compound. 3,332,924, 7–25–67, Cl. 260—91.1.

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Vasta, Joseph A., to E. I. du Pont de Nemours, and Co. Coating compositions containing an interpolymer having reactive hydroxybutyl and carboxylic acid moieties. 3,338,860, 8–29–67, Cl. 260—33.4.
Vasta, Joseph A., to E. I. du Pont de Nemours and Co. Coating compositions. 3,347,951, 10–17–67, Cl. 260—837.
Vater, Max, and A. Hinkel, to Friedrich Kocks Kommanditgesellschaft. Apparatus for controlling the speed of the drive motors for driving the roll stands of a multiple-stand rolling mill. 3,314,264, 4–18–67, Cl. 72—249.
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Vaughn, Howard A., Jr., to General Electric Co. Method for making linear polydiarylsiloxanes. 3,349,048, 10-24-67, Cl. 260—18.

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Veazey, Thomas M., and W. R. Eberhardt, to Monsanto Co. Control of acetaldehyde in the recovered monomers of a shortstopped copolymerization reaction of acrylonitrile and a vinyl carboxylate. 3,324,167, 6-6-67, Cl. 260—465.9.

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Vercellotti, Leonard C., to Westinghouse Electric Corp. Gated unijunction transistor oscillator having improved periodicity. 3,337,816, 8-22-67, Cl. 331—111.
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Vibber, Alfred W. Low tension strand plying apparatus. 3,338,042, 8–29–67, Cl. 57—58.36.
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Vogel, George J., to United States of America, Air Force Multiple target tracking system. 3,323,128, 5–30–67, Cl. 343—113.

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Von Dohlen, Werner C., T. P. Wilson, and E. G. Caflisch, to Union Carbide Corp. Production of cis-1,4-polydienes by polymerization of 1,3-dienes. 3,297,667, 1–10–67, Cl. 260—82.1.
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Von Holtz, Charles T., to Harvey Hubbell Inc. Electrical wiring device having an improved cord clamp. 3,324,448, 6–6–67, Cl. 339—103.
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Von Konig, Anita, W. Wolf, and H. Mader, to Agfa Aktiengesellschaft. Heated diffusion transfer using leucophthalocyanines. 3,335,006, 8–8–67, Cl. 96—29.
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Wallace, David J., J. M. Straley, and M. A. Weaver, to Eastman Kodak Co. N-heterocyclic monoazo azo dyes. 3,342,799, 9-19-67, Cl. 260—152.
Wallace, David J., and M. A. Weaver, to Eastman Kodak Co. Mono azo dyes for hydrophobic fibers. 3,349,075, 10-24-67, Cl. 260—158.
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Wallace, Edward M., and W. M. Preston, to Wallace Mfg. Corp. Pruning cutter. 3,336,667, 8-22-67, Cl. 30—135.
Wallace, Elvis D., to United States of America, National Aeronautics and Space Administration. Valve seat with resilient support member. 3,327,991, 6-27-67, Cl. 251—172.
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Wallace, John W. Drive-through livestock gate. 3,299,572, 1-24-67, Cl. 49—131.
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Wallace, John W., to Westinghouse Electric Corp. Slave gauge control system for a rolling mill. 3,357,217, 12-12-67, Cl. 72—8.
Wallace, Kurt F., to Ampex Corp. Electron beam readout system. 3,317,713, 5-2-67, Cl. 235—61.11.
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Wallace, Lance, to Alloys Research & Mfg. Corp. Process for improved sintering. 3,326,679, 6-20-67, Cl. 75—212.
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Wallace, Richard B., to The Oakland Corp. Auto-pilot. 3,358,633, 12-19-67, Cl. 114—144.
Wallace, Robert G., to Phillips Petroleum Co. Melt blending of polyolefins. 3,299,186, 1-17-67, Cl. 260—897.
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Wallenfels, Kurt, and K. Friedrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Hexacyanobenzene. 3,297,739, 1–10–67, Cl. 260—465.

Wallentowitz, Klaus, to General Time Corp. Electronic timer circuit. 3,355,632, 11–28–67, Cl. 317—142.

Waller, Arthur, to Bull Dog Lock Co. Spacer means for packaging of mirrors and the like. 3,321,075, 5–23–67, Cl. 206—62.

Waller, Charles D. Screw actuated dispenser. 3,333,740, 8–1–67, Cl. 222—182.

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Haspert, John C., and Wallers. 3,355,215.

Wallgren, H. A. Ake, to Aktiebolaget Electrolux. Valve structure. 3,354,909, 11–28–67, Cl. 137—612.1.

Wallick, Hyman, to Merck & Co., Inc. Controlling antibiotic resistant strains of micrococcus pyogenes and other pathogenic bacteria with novobiocin and other antibiotics. 3,350,267, 10–31–67, Cl. 167—65.

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Wallin, Carl O. H. Arrangement in pulleys for ropes and hawsers. 3,202,932, 2–7–67, Cl. 254—190.

Wallin, Sten O., to Aktiebolaget Bofors. Cartridge-guiding device of an automatic gun. 3,314,332, 4–18–67, Cl. 89—45.

Wallin, Sven, to Aktienbolaget Svenska Flaktfabriken. Cleaning device for frame-mounted net filters. 3,306,012, 2–28–67, Cl. 55—294.

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Wallingford, Vernon H., to Mallinckrodt Chemical Works. N-substituted-2,4,6-triiodoanilic acids and salts thereof. 3,350,-278, 12–19–67, Cl. 260—326.5.

Wallis, Bernard J. Roller coating apparatus. 3,322,097, 5–30–67, Cl. 118—227.

Wallis, Charles W.: *See*—
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Wallis, George C., Jr., to Ford Motor Co. Speedometer assembly. 3,328,977, 7–4–67, Cl. 64—4.

Wallis, John H., to General Foods Corp. Flour mix composition and batter prepared therefrom. 3,340,067, 9–5–67, Cl. 99—94.

Wallis, Martin, and E. Griebsch, to General Mills, Inc. Diamine curing agent for epoxy resins. 3,303,165, 2–7–67, Cl. 260—47.

Wallis, Marvin E. Method of enclosing an article with a liquid film. 3,297,809, 1–10–67, Cl. 264—238.

Wallis, Nell R. Coating apparatus. 3,342,418, 9–19–67, Cl. 239—296.

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Wallsten, Hans I. Pouring spouts for containers. 3,297,227, 1–10–67, Cl. 229—17.

Wallwork, Charles M. G. Method and apparatus for making cored casting molds. 3,327,767, 6–27–67, Cl. 164—18.

Wally, Joseph H., Jr., to Opti-Copy, Inc. Optical apparatus. 3,320,854, 5–23–67, Cl. 88—24.

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Walrond, John E., to St. Joseph Lead Co. Zinc oxide compositions and method of making them. 3,346,409, 10–10–67, Cl. 106—296.

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Walsh, Bruce R., to Gulf Research & Development Co. Aspirator for use in a flowing gas stream. 3,332,231, 7–25–67, Cl. 60—30.

Walsh, Bruce R., to Gulf Research and Development Co. Venturi ejector including automatically movable disc members. 3,345,931, 10–10–67, Cl. 98—78.

Walsh, Bruce R., to Gulf Research & Development Co. Wind velocity instrument. 3,359,795, 12–26–67, Cl. 73—189.

Walsh, Donald T., to Gullick Ltd. Remote indicating systems for mine roof supports. 3,341,843, 9–12–67, Cl. 340—421.

Walsh, Edward J., to Bell Telephone Laboratories, Inc. Adjustable optical device. 3,334,959, 8–8–67, Cl. 350—310.

Walsh, Edward N., to Stauffer Chemical Co. Phosphoro (mono or di) thioate thiocarbonates. 3,354,195, 11–21–67, Cl. 260—455.

Walsh, Edward N., and A. F. Kopacki, to Stauffer Chemical Co. Stabilized polyolefin compositions containing tin phosphinates. 3,296,193, 1–3–67, Cl. 260—45.75.

Walsh, Edward N., and A. F. Kopacki, to Stauffer Chemical Co. Organotin dithiophosphates. 3,358,006, 12–12–67, Cl. 260—429.7.

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Walsh, John, and W. M. A. Smith, to F. Smith & Co. (Whitworth) Ltd. Dyeing and similar liquid treatment of textile materials. 3,314,256, 4–18–67, Cl. 68—22.

Walsh, John H., to Canada, Her Majesty The Queen in right of, as represented by the Minister of Mines and Technical Surveys. Process for utilizing hydrocarbon injection into hot reducing gases in steelmaking. 3,356,488, 12–5–67, Cl. 75—34.

Walsh, John V., to Consolidated Systems Corp. Thermal flow meter. 3,326,040, 6–20–67, Cl. 73—204.

Walsh, Joseph S., to The Yoder Co. Flying cut-off. 3,301,-115, 1–31–67, Cl. 83—314.

Walsh, Joseph S., to The Yoder Co. Flying cut-off. 3,309,-952, 3–21–67, Cl. 83—87.

Walsh, Le Roy K.: *See*—
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Walsh, Peter J., and K. W. Cowans, to Hughes Aircraft Co. Cryogenic transfer arrangement. 3,315,478, 4–25–67, Cl. 62—45.

Walsh, Ralph E., and E. Laky, to Breeze Corp., Inc. Continuous loop variable penetration winch. 3,358,968, 12–19–67, Cl. 254—175.3.

Walsh, Richard W. Counter-actuator device. 3,317,131, 5–2–67, Cl. 235—98.

Walsh, Robert R., to All American Engineering Co. Dual control battery charger. 3,305,755, 2–21–67, Cl. 320—40.

Walsh, Robert R., to All American Engineering Co. Self-regulated battery charger. 3,321,691, 5–23–67, Cl. 320—40.

Walsh, Robert R., to All American Engineering Co. Self-regulated battery charger. 3,321,692, 5–23–67, Cl. 320—40.

Walsh, Robert R., to All American Engineering Co. Automatic alarm annunciator circuits. 3,357,008, 12–5–67, Cl. 340—213.1.

Walsh, Thomas A., and R. H. Strasbaugh; said Walsh, assor. to said Strasbaugh. Electronic spherometers. 3,315,367, 4–25–67, Cl. 33—178.

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McNulty, John G., and Walsh. 3,349,149.

Walsmann, Peter: *See*—
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Walter, Andrew T., G. M. Bryant, and C. L. Purcell, to Union Carbide Corp. Process for sizing and desizing textile fibers. 3,321,819, 5–30–67, Cl. 28—72.6.

Walter, Andrew T., and R. S. Wishart, Jr., to Union Carbide Corp. Formation of wet spun fibers. 3,336,428, 8–15–67, Cl. 264—182.

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Walter, Bernard R., to Selas Corp. of America. Gas cleaner. 3,353,339, 11–21–67, Cl. 55—316.

Walter, Charles R., Jr., and D. Pickens, to Allied Chemical Corp. Production of the lower alkyl esters of di- or tri-(2-carboxyethyl) isocyanurate. 3,332,945, 7–25–67, Cl. 260—248.

Walter, Charles T., to Continental Can Co., Inc. Can end. 3,303,957, 2–14–67, Cl. 220—48.

Walter, Charles T., to Continenal Can Co., Inc. Can end package. 3,357,554, 12–12–67, Cl. 206—65.

Walter, Cletus N., 37½% to the firm of McCormick, Barstow, Sheppard, Coyle & Best. Signaling device. 3,319,596, 5–16–67, Cl. 116—63.

Walter, Fredrick L., to Chemetron Corp. Method and apparatus for handling liquids. 3,302,418, 2–7–67, Cl. 62—52.

Walter, George, to Armor Elevator Co., Inc. Sliding elevator and hatchway door operator. 3,315,767, 4–25–67, Cl. 187—57.

Walter, Gerard O., and E. A. Scordato, to Sperry Rand Corp. Document feeder for photographic copier. 3,299,772, 1–24–67, Cl. 88—24.

Walter, Gerard O., F. R. Goldammer, A. A. De Meo, and F. M. Pintus, to Sperry Rand Corp. Markings method and apparatus. 3,324,762, 6–13–67, Cl. 88—24.

Walter, Gerard O., F. M. Pintus, and F. L. Van Roten, to Sperry Rand Corp. Holding device. 3,336,690, 8–22–67, Cl. 40—158.

Walter, Gerard S., and J. Hagan. Apparatus for joining electrical cables. 3,339,174, 8–29–67, Cl. 339—244.

Walter, Gerhard: *See*—
Muller, Martin, and Walter. 3,349,337.
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Walter, Gordon E.: *See*—
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Walter, Hans and B., to Brown Engineering Co., Inc. Method of producing propulsive forces by intermittent explosions using gem-polynitro and hydrazine compounds. 3,321,920, 5–30–67, Cl. 60—211.

Walter, Harry, to Max-Planck-Gesellschaft, zur Forderung der Wissenschaften e.V. Vacuum jacket siphon for cryogenic fluids. 3,302,419, 2–7–67, Cl. 62—55.

Walter, Heinz F., and H. D. Muller, to Siemens Aktiengesellschaft. Arrangement for storing individual television pictures. 3,352,968, 11–14–67, Cl. 178—6.6.

Walter, Henry J., and T. F. Aasen, to Airequipt Inc. Selectable power source for lamp including rechargeable battery. 3,322,964, 5–30–67, Cl. 307—66.

Walter, Henry W. Staple making machine. 3,349,556, 10–31–67, Cl. 59—71.

Walter, Peter A., and J. L. Clarke, to International Computers and Tabulators Ltd. Mask-work registration device in vacuum deposition apparatus. 3,302,609, 2–7–67, Cl. 118—49.

Walter, Richard C., to Standard Controls, Inc. Low pressure transducer. 3,300,745, 1–24–67, Cl. 338—4.

Walter, Richard T.: *See*—
Makowski, Alexander G., and Walter. 3,298,594.

Walter, Robert D., to Concentric (Engineering) Ltd. Fluid pumps and motors. 3,306,226, 2–28–67, Cl. 103—126.

Walter, Robert L.: *See*—
Delacretaz, Richard, Stein, and Walter. 3,328,488.

Walter, William T.: *See*—
Wood, Fenton M., Crouch, and Walters. 3,346,807.

Walterick, Kenneth H.: *See*—
Anthony, Walter H., Zoda, and Walterick. 3,359,393.

Walterick, Kenneth H., and W. H. Anthony, to Circle F Industries, Inc. Electric switch having barriers isolating the several terminals and frame-attaching tabs thereof. 3,321,-601, 5–23–67, Cl. 200—168.

Waltermire, William G., to The Lamson & Sessions Co. Fastener having concave locking fins. 3,295,580, 1–3–67, Cl. 151—37.

Walters, Charles E., 50% to Allen Trask. Air conditioning system. 3,352,352, 11–14–67, Cl. 165—16.

Walters, Edgar W.: *See*—
Moss, Hoyle G., and Walters. 3,302,234.

Walters, Edward M., to Bell Telephone Laboratories, Inc. Magnetic shift register circuit. 3,307,159, 2–28–67, Cl. 340—174.

Walters, Edwin E.: *See*—
Dygert, George C., Walters, and Smith. 3,356,395.

Walters, Emmett L., to Libbey-Owens-Ford Glass Co. Apparatus for protecting the withdrawing rollers of a molten metal bath in a glass sheet making operation. 3,318,674, 5–9–67, Cl. 65—159.

Walters, Emmett L., and J. S. Koluch, to Libbey-Owens-Ford Glass Co. Sheet handling apparatus for glass plates, etc. 3,326,547, 6–20–67, Cl. 271—12.

Walters, Frank L.: *See*—
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Walters, George R., and G. A. Luckett, to Deere & Co. Protective shield on earth-carrying scraper. 3,308,565, 3–14–67, Cl. 37—129.

Walters, Harold A.: *See*—
Pueschner, Robert J., and Walters. 3,297,614.

Walters, Henry K., Jr., to Tennessee Valley Authority. Suspension fertilizers from concentrated superphosphates. 3,326,666, 6–20–67, Cl. 71—29.

Walters, Manuel. Float control means for use in water closets and the like. 3,331,387, 7–18–67, Cl. 137—426.

Walters, Mitchell, 49% to Edgar W. Dorchert. Device for measuring weight distribution on a foot. 3,305,036, 2–21–67, Cl. 177—209.

Walters, Ronald, to The Sperry Gyroscope Co. Ltd. Hydraulic apparatus. 3,342,213, 9–19–67, Cl. 137—625.69.

Walters, Russell W., to National Lock Co. Lock assembly with a removable bolt. 3,349,585, 10–31–67, Cl. 70—86.

Walters, Tom. Coupling. 3,342,510, 9–19–67, Cl. 285—83.

Walters, Wayne L.: *See*—
Steele, Thomas S., and Walters. 3,360,786.

Walters, William D., to Standard Tool & Mfg. Co. Multiple machining device. 3,314,125, 4–18–67, Cl. 29—38.

Walters, William L., Jr. Apparatus for preparing candy apples. 3,353,735, 11–21–67, Cl. 227—2.

Walters, William R., and W. D. Conner. Above ground liquid level control. 3,299,817, 1–24–67, Cl. 103—25.

Walters, William T.: *See*—
Wood, Fenton M., and Walters. 3,327,205.
Wood, Fenton M., and Walters. 3,327,206.
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Elks, Joseph, May, and Weir. 3,312,591.

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Weirich, Walter, to Hoesch-gergbautechnik G.m.b.H. Mine roof support. 3,328,968, 7-4-67, Cl. 61—45.

Weis, Andrew J. and A. B. Music chord finder device. 3,350,973, 11-7-67, Cl. 84—478.

Weis, Anne B.: *See*—
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Weis, Frank G., to Union Tank Car Co. Nozzle. 3,335,963, 8-15-67, Cl. 239—499.

Weis, Frank G., and C. R. Welty, to Union Tank Car Co. Automatic liquid level control means for a sewerage wet well. 3,360,002, 12-26-67, Cl. 137—395.

Weis, George H., and A. Busch, to American Smelting and Refining Co. Electrolytic cell including a starting cathode having an integral supporting means. 3,298,945, 1-17-67, Cl. 204—242.

Weis, John L., to International Minerals & Chemicals Corp. Hydrocyclone. 3,306,461, 2-28-67, Cl. 210—512.

Weis, Ronald J.: *See*—
Welles, Donald P., Jr., and Weis. 3,320,160.

Weisang, Joseph E.: *See*—
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Weisang, Joseph E., and J. L. Weill, deceased (L. M. Thevenet, administratrix of the estate of J. L. Weill), to Compagnie Francaise de Raffinage. Method of and catalyst for the de-hydrogenation of aliphatic hydrocarbons. 3,318,968, 5-9-67, Cl. 260—683.3.

Weisbach, Jerry A., to Smith Kline & French Laboratories. Spiro[3-indole-3',-pyrrolidine and piperidine] derivatives. 3,299,075, 1-17-67, Cl. 260—293.

Weisbeck, Roland, and A. Brockes, to Farbenfabriken Bayer Aktiengesellschaft. Photoresistors and photoelements having increased sensitivity in the short wave region of the spectrum. 3,309,226, 3-14-67, Cl. 117—201.

Weisbeck, Roland, A. Brockes, and H. Nassenstein, to Farbenfabriken Bayer Aktiengesellschaft. Photoconductive structural element and process of manufacturing same. 3,351,516, 11-7-67, Cl. 161—184.

Weisbecker, Joseph A. Magnetic toy, trick, game and educational device. 3,305,967, 2-28-67, Cl. 46—238.

Weisbecker, Joseph A., to Radio Corp. of America. Data processing system. 3,209,679, 3-14-67, Cl. 340—172.5.

Weisbecker, Joseph A. Computer-type device. 3,331,143, 7-18-67, Cl. 35—30.

Weisberg, Alex, to The Dentists' Supply Co. of New York. Dental articulator analogs and method and apparatus for constructing same. 3,321,832, 5-30-67, Cl. 32—32.

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Desmond, Timothy J., Greenberg, and Weisberg. 3,356,543.
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Weisberg, Sidney, to Worthy Products Corp. Wire core back brush assembly. 3,296,644, 1-10-67, Cl. 15—206.

Weisberg, Sidney, to Worthy Products Corp. Drapery support assembly. 3,321,797, 5-30-67, Cl. 16—87.4.

Weisberg Sidney, to Worthy Products Corp. Drapery pleat forming assembly. 3,335,786, 8-15-67, Cl. 160—348.

Weisberg, Sydney R. Multi-compartment package. 3,358,821, 12-19-67, Cl. 206—56.

Weisberger, David. Nose and lip protector apparatus. 3,346,875, 10-17-67, Cl. 2—9.

Weisberger, David. Portable electrical foot heating apparatus. 3,360,633, 12-26-67, Cl. 219—211.

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Weise, Oskar, to Albert Geser Manufacturer. Device for spacing apart reinforcing luserts in reinforced concrete. 3,300,930, 1-31-67, Cl. 52—309.

Weise, Reginald V. Wire strainers. 3,341,177, 9-12-67, Cl. 254—73.

Weisenbach, Charles O., to The New York Air Brake Co. Hydrostatic transmission. 3,355,886, 12-5-67, Cl. 60—53.

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Weisenborn, Frank L., to E. R. Squibb & Sons, Inc. Norpregnene compounds and intermediated therefor. 3,338,957, 8-29-67, Cl. 260—488.

Weisenborn, Frank L., and J. S. P. Schwarz, to E. R. Squibb & Sons, Inc. Complexes of tetracyclines and derivatives thereof. 3,360,560, 12-26-67, Cl. 260—559.

Weisenborn, Harold E., to Ferro Corp. Apparatus for reducing particle concentration in volume of liquid containing same. 3,312,347, 4-4-67, Cl. 210—195.

Weisend, Charles F. Cement additives containing polyvinylpyrrolidone and a condensate of sodium naphthalene sulfonate with formaldehyde. 3,359,225, 12-19-67, Cl. 260—29.6.

Weiser, Kurt, and S. E. Blum, to International Business Machines Corp. Method and apparatus for growing crystals. 3,338,678, 8-29-67, Cl. 23—204.

Weiser, Perry W., to General Electric Co. Gripping device. 3,318,594, 5-9-67, Cl. 269—265.

Weisfeld, Lewis B., to Carlisle Chemical Works, Inc. Cement containing calcium carbonate particles coated with bis (tributyltin) oxide. 3,323,928, 6-6-67, Cl. 106—148.

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Weisglass, Louis L., to Simmon Bros., Inc. Color balance computer for making color prints. 3,351,766, 11-7-67, Cl. 250—226.

Weishaar, Robert J., to The Boeing Co. Welding apparatus. 3,300,683, 1-24-67, Cl. 315—205.

Weishaupt, Josef, to Linde Aktiengesellschaft. Thermal insulation suitable for vacuum bottles and the like. 3,357,587, 12-12-67, Cl. 220—9.

Weisheit, Georg. Control system for flowing media. 3,307,824, 3-7-67, Cl. 251—131.

Weisman, Arnold M., to The Birtcher Corp. Modular printed circuit board rack with improved card guide. 3,333,156, 7-25-67, Cl. 317—101.

Weisman, Charles. Ice skate and adjustment means therefor. 3,339,935, 9-5-67, Cl. 280—11.12.

Weisman, David L., and P. C. Fletcher, to Electro-Optical Systems, Inc. Transverse magneto-optical rotator with compensation of phase retardation. 3,360,323, 12-26-67, Cl. 350—151.

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Weisman, Mary L. and L. P. Infant's play enclosure. 3,336,607, 8-22-67. Cl. 5—99.

Weismann, Theodore J., and W. M. Zarrella, to Gulf Research & Development Co. Process for the polymerization of ethylenically unsaturated compounds by an alkali metal-boron-triaryl catalyst. 3,350,476, 10-31-67, Cl. 260—878.

Weismann, Victor P. Reinforced modular foam panels. 3,305,991, 2-28-67. Cl. 52—309.

Weismann, Walter T., to United States of America, Army. Spring powered and regulated generator. 3,354,383, 11-21-67, Cl. 322—29.

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Weisner, Ralph M. Projector for dual images of opposite sides of opaque means. 3,304,835, 2-21-67, Cl. 88—26.

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Weiss, Arthur J., to Continental Can Co., Inc. Carton with separate keel. 3,326,367, 6-20-67, Cl. 206—65.

Weiss, Arthur J., to Continental Can Co., Inc. Carrier with center divider. 3,352,453, 11-14-67, Cl. 220—115.

Weiss, Arthur J., to Continental Can Co., Inc. Double wall separator for bottle carriers. 3,355,012, 11-28-67, Cl. 206—65.

Weiss, Arthur J., to Continental Can Co., Inc. Chime lock for cans. 3,357,552, 12-12-67, Cl. 206—65.

Weiss, Bertram L., and M. Kessler. Shelf structure. 3,323,656, 6-6-67, Cl. 211—153.

Weiss, Bertram L., and M. Kessler. Shelf structure. 3,323,657, 6-6-67, Cl. 211—153.

Weiss, Charles, and D. H. Linn, to S. S. White Co. Dental unit. 3,302,290, 2-7-67, Cl. 32—22.

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Weiss, Cornelius F., Jr., to International Business Machines Corp. Core driver test apparatus. 3,339,191, 8-29-67, Cl. 340—174.

Weiss, Easter, and E. E. Fairbanks. Drying and storing frame for knit goods. 3,358,388, 12-19-67, Cl. 34—239.

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Weiss, Eric A., to Sun Oil Co. Automatic control system for optimizing heat transfer to a fluid flowing through parallel connected heat exchangers. 3,322,938, 5-30-67, Cl. 235—150.1.

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Weiss, Erwin L., to American Cyanamid Co. Process for preparing iron tetracarbonyl compounds with mono-olefinic ligands. 3,351,648, 11-7-67, Cl. 260—439.

Weiss, Felix S., to Cornell-Dubilier Electric Corp. Method of manufacturing capacitors. 3,315,331, 4-25-67, Cl. 29—25.42.

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Weiss, Francis, and A. Isard, to Ugine Kuhlmann. Process for preparing epsiloncaprolactams. 3,360,514, 12-26-67, Cl. 260—239.3.

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Weiss, Gunther, to Electro Glass Laboratories, Inc. Distilland treating and condensing apparatus. 3,340,157, 9-5-67, Cl. 202—180.

Weiss, Hans R. Physiotherapeutic massaging apparatus. 3,337,237, 8-22-67, Cl. 280—150.

Weiss, Harry M., to Varian Associate. Electromagnetic wave permeable window. 3,324,427, 6-6-67, Cl. 333—98.

Weiss, Harry M. Electromagnetic wave permeable window including center conductor therefor. 3,327,257, 6-20-67, Cl. 333—97.

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Stein, Werner, Weiss, and Koch. 3,351,559.
Wagini, Herbert, and Weiss. 3,343,009.

Weiss, Herbert, to Siemens-Schuckertwerke Aktiengesellschaft. Electric machine with contactless commutator. 3,305,717, 2-21-67, Cl. 318—254.

Weiss, Herbert, to Siemens-Schuckertwerke Aktiengesellschaft. Magnetic-field dependence signal transmitter or signaller. 3,315,142, 4-18-67, Cl. 321—2.

Weiss, Herbert, to Siemens-Schuckertwerke Aktiengesellschaft. Galvanomagnetic semiconductor device. 3,315,204, 4-18-67, Cl. 338—32.

Weiss, Herbert, to Siemens Schuckertwerke Aktiengesellschaft. Switched regulator with magnetic field responsive phase control device. 3,320,518, 5-16-67, Cl. 323—19.

Weiss, Herbert, to Siemens-Schuchertwerke Aktiengesellschaft. Rotary resistor arrangement employing a galvanomagnetic semiconductor field plate. 3,335,384, 8-8-67, Cl. 338—68.

Weiss, Herbert, to Siemens-Schuckertwerke Aktiengesellschaft. Device for measuring locally dependent differences between the magnetic field gradient at different points of a magnetic field. 3,341,772, 9-12-67, Cl. 324—46.

Weiss, Herbert, and P. Hini, to Siemens-Schuckertwerke Aktiengesellschaft. Galvano-magnetic semiconductor field plate. 3,331,045, 7-11-67, Cl. 338—32.

Weiss, Hugh R., to The Pantasote Co. of New York, Inc. Multiple-cavity cookie container. 3,322,267, 5-30-67, Cl. 206—65.

Weiss, Jerald A., to Massachusetts Institute of Technology. High frequency circulator having a plurality of differential phase shifters and intentional mismatch means. 3,304,510, 2–14–67, Cl. 333—1.1.

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Weiss, LeRoy. Adaptor for hot air heating systems. 3,308,746, 3–14–67, Cl. 98—108.

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Weiss, Mortimer E., to Morris Associates. X-ray tube with cooling jacket for target. 3,358,168, 12–12–67, Cl. 313—36.

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Weiss, Sidney. Infrared imaging system using a photochromic glass viewing screen. 3,327,120, 6–20–67, Cl. 250—83.3.

Weiss, Stanley J. Railway control apparatus. 3,350,558, 10–31–67, Cl. 246—126.

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Weiss, Warren, to Allied Chemical Corp. Tufting needle. 3,322,085, 5–30–67, Cl. 112—222.

Weiss, Werner, and K. Vatterodt, to Patent-Treuhand-Gesellschaft fur Elektrische Glublampen m.b.H. Furnace for the manufacture of fused quartz. 3,320,045, 5–16–67, Cl. 65—335.

Weiss, William C. Frankfurter bun baking receptacle. 3,341,167, 9–12–67, Cl. 249—66.

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Weissbach, Helmut, to Farbenfabriken Bayer Aktiengesellschaft. Building material compositions for the manufacture of water-repellent products. 3,318,839, 5–9–67, Cl. 260—37.

Weissbach, Max. Light reflective photoelectric tape sensor system. 3,308,301, 3–7–67, Cl. 250—219.

Weissermel, Klaus, K. Kullmar, M. Reiher, and E. Fischer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyacetals and a process of preparing them. 3,316,217, 4–25–67, Cl. 260—67.

Weissermel, Klaus, and K. Rehn, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brunning. Copolymers of aliphatic aldehydes and process for making them. 3,355,429, 11–28–67, Cl. 260—67.

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Weisshuhn, Peter. Method and apparatus for making envelopes. 3,344,719, 10–3–67, Cl. 93—63.

Weisskopf, Ernst, to Standardwerk Eugen Reis G.m.b.H. Coin-sorting and counting machine. 3,351,075, 11–7–67, Cl. 133—3.

Weissman, Bernard. Dental prosthesis. 3,304,610, 2–21–67, Cl. 32—5.

Weissman, Bernard. Apparatus for casting by the lost wax process. 3,322,187, 5–30–67, Cl. 164—376.

Weissman, Bernard. Method of splinting teeth. 3,348,311, 10–24–67, Cl. 128—89.

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Weissman, Stanley N., and G. L. Matthias, to W. R. Grace & Co. Method of molding a foamed plastic structure having a smooth outside surface. 3,306,960, 2–28–67, Cl. 264—51.

Weiste, Heinrich. Arrangement for coupling a towed vehicle to a towing vehicle. 3,306,630, 2–28–67, Cl. 280—479.

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Weisz, Paul B., to Mobil Oil Corp. Steam treatment of the matrix in a crystalline alumino-silicate catalyst composite. 3,335,099, 8–8–67, Cl. 252—455.

Weitkamp, Alfred W., to Standard Oil Co. Using ruthenium catalysts to prepare cis-isomers of polycyclic aromatics. 3,349,140, 10–24–67, Cl. 260—667.

Weitz, Hans M., H. Kroeper, and U. Wagner, and J. Ritz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separating and recovering cyclopentadiene. 3,344,198, 9–26–67, Cl. 260—666.

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Weitzel, Daniel H., to United States of America, Air Force. Pipe coupling. 3,339,948, 9–5–67, Cl. 285—331.

Weitzel, Guenther, to Kolmar Laboratories, Inc. Compositions comprising alkyl branched, long-chain, aliphatic compounds for increasing the water vapor porosity of fat materials. 3,335,053, 8–8–67, Cl. 167—58.

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Weitzman, Laurence H., and W. R. Harding, Jr., to Westinghouse Electric Corp. Oil impregnated thermoelectric element with electroplated metal contact and method of producing same. 3,351,499, 11–7–67, Cl. 136—236.

Weitzman, Milton J., to Slater Electric Inc. Light switch with indicating light in a translucent handle thereof. 3,301,988, 1–31–67, Cl. 200—167.

Weitzman, Norman G. Top fastening rim with closure and handle. 3,298,562, 1–17–67, Cl. 220—94.

Weitzman, Norman G. Non-jamming agitating and dispensing apparatus for a vending machine. 3,298,569, 1–17–67, Cl. 221—203.

Weitzman, Norman G. Positive-feeding dispensing apparatus for a vending machine. 3,327,897, 6–27–67, Cl. 221—265.

Weitzman, Norman G. Multiple panel merchandise receptacle for a merchandise vending machine. 3,341,267, 9–12–67, Cl. 312—35.

Weitzman, Norman G. Multiple sliding-panel merchandise receptacle for a merchandise vending machine. 3,341,269, 9–12–67, Cl. 312—205.

Weitzman, Norman G. Vending machine for vending in sequence merchandise article containers from two vertically stacked adjacent columns thereof. 3,342,373, 9–19–67, Cl. 221—107.

Weitzman, Norman G. and B. S. Teaching machine and motor response training apparatus. 3,310,884, 3–28–67, Cl. 35—12.

Weitzner, Dorothea M. Roller skates for shoes. 3,306,623, 2–28–67, Cl. 280—11.2.

Weitzner, Dorothea M. Collapsible luggage scooter. 3,314,494, 4–18–67, Cl. 180—27.

Weitzner, Dorothea M. Motorized traveling case scotter to convey passenger. 3,316,993, 5–2–67, Cl. 180—33.

Weitzner, Dorothea M. Shoe heel and overshoe assembly. 3,325,918, 6–20–67, Cl. 36—1.

Weitzner, Dorothea M. Shoe construction with storage compartment. 3,328,900, 7–4–67, Cl. 36—1.

Weitzner, Dorothea M. Endless belt printer and ink pad. 3,342,128, 9–19–67, Cl. 101—103.

Weitzner, Dorothea M. Adjustable spool shaped hair curler with hair engaging projections. 3,343,549, 9–26–67, Cl. 132—40.

Weitzner, Dorothea M. Electrically heated hair curling device. 3,347,248, 10–17–67, Cl. 132—40.

Weitzner, Dorothea M. Suction tube dispensing means for beverage containers. 3,349,987, 10–31–67, Cl. 229—15.

Weitzner, Dorothea M. Retractable roller and ice skates for shoes. 3,351,353, 11–7–67, Cl. 280—7.13.

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Wel-Bilt Products Co.: *See*—
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Welborn, Robert E. Distributor. 3,349,930, 10–31–67, Cl. 214—17.

Welch, Albert B., to LTV Aerospace Corp. Method of making an electrical connection. 3,350,776, 11–7–67, Cl. 29—592.

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Welch, Clark M., to United States of America, Agriculture. Polymeric adducts of divinyl sulfone with water and preparation thereof. 3,316,308, 4–25–67, Cl. 260—607.

Welch, Clark M., to United States of America, Agriculture. Process for making alkoxyethylsulfonylethyl ethers of cellulose. 3,359,061, 12–19–67, Cl. 8—120.

Welch, Eldred, D. E. Graham, and A. M. Nashu, to General Aniline & Film Corp. Dialkylol alkylphenol process. 3,306,938, 2–28–67, Cl. 260—624.

Welch, Elvin C., to General Motors Corp. Inertial guidance system with stellar correction. 3,312,423, 4–4–67, Cl. 244—3.18.

Welch, Elvin C., and R. V. Spannagel, to International Telephone and Telegraph Corp. Stepper motor control and step detector. 3,359,474, 12–19–67, Cl. 318—138.

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Welch, Frank J., to Union Carbide Corp. Copolymers of a monovinyl phosphine oxide and a polyvinyl phosphine oxide. 3,312,674, 4–4–67, Cl. 260—80.3.

Welch, Frank J., and H. J. Paxton, Jr., to Union Carbide Corp. Polymers of coordination complexes of vinylphosphines and metal salts, and process for preparing same. 3,355,439, 11–28–67, Cl. 260—80.

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Welch, John G. Stripping mechanism for baking cookies. 3,345,957, 10–10–67, Cl. 107—57.

Welch, John L., Jr., R. F. Sellers, and J. J. Madden, to Union Carbide Corp. Process of forming shaped articles from solid, fusible reaction products of bis (2,3-epoxycyclopentyl) ether and aromatic amines. 3,342,918, 9–19–67, Cl. 264—134.

Welch, Joseph J., to United Aircraft Corp. Oil filter and heater. 3,315,737, 4–25–67, Cl. 165—119.

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Welch, Nicholas A., to Emhart Corp. Lever handle clutch. 3,314,708, 4–18–67, Cl. 292—336.5.

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Wells, Alfred C., to A. Wells & Co., Ltd. Wire coiling machine. 3,313,325, 4–11–67, Cl. 140—103.

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Wells, Ralph P. and J. L. 3,303,595.

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Wells, Melvin J., to Western Geophysical Co. of America. Pneumatic technique for catching or scaring fish. 3,309,807, 3–21–67, Cl. 43—14.

Wells, Miles C. Coin holder and visual display. 3,323,644, 6–6–67, Cl. 206—.83.

Wells, Novell E. Apparatus for topping sugar beets and saving the severed tops. 3,306,017, 2–28–67, Cl. 56—121.45.

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Wells, Robert M. Method of forming mechanically interlocked heat seal engagement between a bottom plate and a plastic container in a coffee percolator, or other receptacle. 3,308,225, 3–7–67, Cl. 264—249.

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Welsch, Fred D., and C. F. Carter; said Carter assor. to said Welsch. Methods and apparatus for discharging personnel and cargo from vehicles. 3,358,950, 12–19–67, Cl. 244—137.

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Welsh, Alan B., to W. W. Kimball Co. Two channel tremolo. 3,329,761, 7–4–67, Cl. 84—1.18.

Welsh, Alfred W., and K. Hussey, to S. Smith & Sons (England) Ltd. Echo sounding apparatus. 3,302,210, 1–31–67, Cl. 346—17.

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Welsh, Herbert F., deceased (by J. S. Chapline, executrix), and L. D. Wilson, to Sperry Rand Corp. Verifier. 3,310,787, 3–21–67, Cl. 340—172.5.

Welsh, James D., and J. J. Kresl. Dispensing device. 3,313,454, 4–11–67, Cl. 222—102.

Welsh, Jay Y., to Manganese Chemicals Corp. Upgrading manganese ores using HF and H_2SiF_6 as leaching materials. 3,330,649, 7–11–67, Cl. 75—101.

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Welty, Frank. Apparatus for controlling the rate of flow of liquids. 3,335,749, 8–15–67, Cl. 137—504.

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Weman, Per O., to Sigmatex A.G. Fastening means for a three-point safety belt, particularly for motor vehicles. 3,348,881, 10–24–67, Cl. 297—388.

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Wendell, Elmer R., and P. G. Peterson. Loading, storage and dispensing apparatus for use with a bituminous mixing plant. 3,322,289, 5–30–67, Cl. 214—41.

Wendell, George E., to Poly-Scientific Corp. Floating-brush contact assembly. 3,297,973, 1–10–67, Cl. 339—5.

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Buckeridge, Roger M. 3,335,324.
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Busam, Donald H. 3,304,064.
Carlson, Melvin G. 3,334,839.
Carothers, George E. 3,338,639.
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Sanders, Walter J. 3,341,111.
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Staples, Crawford E. 3,312,818.
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Temple, Fred. 3,312,481.
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Wheeler, Dean F., and J. F. Vismara, to Holley Carburetor Co. Fuel control. 3,327,756, 6–27–67, Cl. 158—11.
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Wheeler, Donald H., and D. E. Floyd, to General Mills, Inc. Compositions prepared from certain substituted melamines and polyamides derived from polymeric fat acids. 3,306,-865, 2–28–67, Cl. 260—21.
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White, John L., to Jacwil Mfrs. Casket lining means. 3,334,-392, 8–8–67, Cl. 27—19.
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White, John W., Jr., to Whittaker Corp. Thermal insulating composition comprising a mixture of a phenol-aldehyde resin and polypropylene. 3,296,333, 1–3–67, Cl. 260—848.
White, Jonathan W., Jr., to United States of America, Agriculture. Decolorizing of beeswax. 3,309,389, 3–14–67, Cl. 260—424.
White, Kenneth J., to Dennison Mfg. Co. Adjustable recycling apparatus. 3,300,012, 1–24–67, Cl. 192—142.
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Gorzelany, Casimir J., and White. 3,318,507.
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Brown, Frank E. 3,337,096.
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White, Le Roy A. Sequestering ion exchange resins. 3,310,-530, 3–21–67, Cl. 260—47.
White, LeRoy A. Resin carrying aldehyde bound chelator. 3,313,779, 4–11–67, Cl. 260—59.
White, Le Roy A. Sequestering ion exchange resins. 3,352,801, 11–14–67, Cl. 260—2.2.
White, Le Roy A. Sequestering ion exchange resins which are polyimine reaction products. 3,354,103, 11–21–67, Cl. 260—2.2.
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White, Marvin E., 49% to J. G. Elstrand. Well drilling bit. 3,340,940, 9–12–67, Cl. 175—412.
White, Maurice W., to Frigid-Heat Corp. Heating and air conditioning system. 3,296,815, 1–10–67, Cl. 62—118.
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White, Norman O. Lock-down shirt button tab. 3,349,410, 10–31–67, Cl. 2—22.9.
White, Norman W., to Marconi Instruments Ltd. Television camera system for automatically maintaining an optimum beam intensity. 3,315,034, 4–18–67, Cl. 178—7.2.
White, Norris: *See*—
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White, Odas F. Apparatus for repelling insects. 3,306,532, 2–28–67, Cl. 230—241.
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White, Paul S., Jr., to United States of America, Navy. Slide rule calculator for missile capsule. 3,356,297, 12–5–67, Cl.
White, Percy, to J. Lyons and Co. Ltd. Cooking apparatus. 3,331,310, 7–18–67, Cl. 99—421.
White, Peter: *See*—
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White, Peter T., to The British Petroleim Co. Ltd. Method of preparing a supported nickel catalyst. 3,308,071, 3–7–67, Cl. 252—457.
White, Philip H., to Pneumo Dynamics Corp. Cross slide operating mechanism. 3,344,694, 10–3–67, Cl. 82—3.
White, Raymond E., to Chillicothe Telephone Co. Combination telephone and co-axial conduit means. 3,328,510, 6–27–67, Cl. 174—41.
White, Richard A., to Westinghouse Electric Corp. Magnetron having magnetic bias of such strength as to make cyclotron frequency equal to twice PI frequency, useful for cold cathode operation. 3,305,753, 2–21–67, Cl. 315—39.63.
White, Richard B., and J. L. Fritch, to Kent-Moore Organization, Inc. Pressure system charging tool and method. 3,299,648 1–24–67, Cl. 62—77.
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Deasy, Richard E., Parker, and White. 3,310,745.
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White, Richard L., to Dickson Electronics Corp. DC circuit breaker with automatic reset. 3,336,503, 8–15–67, Cl. 317—22.
White, Richard L., to Dickson Electronics Corp. AC circuit breaker. 3,353,067, 11–14–67, Cl. 317—33.
White, Richard L., and D. M. Burness, to Eastman Kodak Co. Quarternary ammonium salts in silver halide processing solutions. 3,314,789, 4–18–67, Cl. 96—29.
White, Richard N., and C. U. Deaton, to Luminous Ceilings, Inc. Light reflecting and shielding structure for suspended ceilings. 3,340,666, 9–12–67, Cl. 52—668.
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White, Robert L., to General Motors Corp. Vehicle adjustable control pedal assemblies. 3,301,088, 1–31–67, Cl. 74—560.
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White, Roy A., to Mobil Oil Corp. Floor tile binder comprising atactic polypropylene and unsaturated rubber. 3,336,254, 8–15–67, Cl. 260—41.
White, Roy A., and R. D. Deanin, to Ethyl Corp. Waterproofing C_{16}-3,4-alpha-olefin polymer composition. 3,305,507, 2–21–67, Cl. 260—29.6.
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White, Van R. Drill bits. 3,336,992, 8–22–67, Cl. 175—412.
White, Wayne E., and A. W. Jache, to Ozark-Mahoning Co. Stannous hexafluorozirconate. 3,337,295, 8–22–67, Cl. 23—88.
White, Wilbert H. Scribing tool for marking lines on hard surfaces. 3,337,951, 8–29–67, Cl. 30—164.9.
White, William B., to Greene Plastics Corp. Flexible cord and fastening means. 3,303,539, 2–14–67, Cl. 24—16.
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White, William E., Jr., W. R. Marshall, and T. Walker, to Halliburton Co. Perforating process and apparatus. 3,305,018, 2–21–67, Cl. 166—35.
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White, William S., and J. G. Buchanan, to The Johnson Wire Works Ltd. Foil type drainage apparatus for paper making machines. 3,337,394, 8–22–67, Cl. 162—352.
White, William V., and C. Dame, Jr., to General Foods Corp. Process for preventing chemical browning in moist and dry food material. 3,337,348, 8–22–67, Cl. 99—130.
White, William W. Shoulder support for violins and the like. 3,298,269, 1–17–67, Cl. 84—278.
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Whitear, Brian R. D., and D. J. Fry, to Ilford Ltd. Arylsulphonyltriazene compounds. 3,350,382, 10–31–67, Cl. 260—140.
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Whitehead, Robert F. Suspensions for vehicles having tandem axles. 3,313,369, 4–11–67, Cl. 180—22.
Whitehead, Robert F. Vehicle load-transfer suspensions. 3,340,946. 9–12–67, Cl. 180—22.
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Whitehurst, Joe R., to Ideal Industries, Inc. Method of feeding strands to textile machines. 3,337,923, 8–29–67, Cl. 19—236.
Whitehurst, Joe R., to Ideal Industries, Inc. Calender roll loading and knock-off. 3,345,696, 10–10–67, Cl. 19—.26.
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Whiteman, Marvin E., Jr., to Whiteman Mfg. Co. Concrete pumping apparatus. 3,327,634, 6–27–67, Cl. 103—49.
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Whitlow, James D., to Dependable Machine Co., Inc. Veneer redrying press and method of operation. 3,318,014, 5–9–67, Cl. 34—13.8.
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Whitmore, Frank C. Coin-dispensing device. 3,343,553, 9–26–67, Cl. 133—4.
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Whitney, James W. Club swing training device. 3,346,257, 10–10–67, Cl. 273—26.
Whitney, John H. Animating apparatus. 3,329,476, 7–4–67, Cl. 352—87.
Whitney, Ralph H., to Owens-Illinois Inc. Method of inserting gaskets in bottle caps. 3,302,278, 2–7–67, Cl. 29—429.
Whitney, Russell H. Process of making a lithographic printing plate. 3,313,626, 4–11–67, Cl. 96—33.
Whitney, Theodore R. Detector of coded signals using phase-lock techniques. 3,356,849, 12–5–67, Cl. 250—203.
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Whittaker, Donald, to Coal Industry (Patents) Ltd. Rotary cutter units for longwall mineral mining machines. 3,343,-883, 9-26-67, Cl. 299—89.

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Whittaker, John N., and P. W. Carney, to Elliott Brothers (London) Ltd. Device for generating an electric signal composed of at least two interlaced signals of different but relating frequencies. 3,354,396, 11-21-67, Cl. 325—153.

Whittaker, Kenneth, to British Nylon Spinners Ltd. Stabilized polyamide compositions containing copper or a copper compound and elementary iodine. 3,318,827, 5-9-67, Cl. 260—18.

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Wiggins, John H. Tension responsive power driven winch. 3,310,291, 3–21–67, Cl. 254—173.

Wiggins, John H. Laminated seal structure for storage tanks employing floating roofs. 3,325,041, 6–13,67, Cl. 220—26.

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Wigington, Jerry, to The Singer Co. Speed control circuits for series motors. 3,305,716. 2–21–67, Cl. 318—246.

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Wilde, Geoffrey L., and J. F. Coplin, to Rolls-Royce Ltd. Turbojet engine with compressor bypass and AFT fan. 3,348,379, 10–24–67, Cl. 60—226.

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Wiley, Paul F., to The Upjohn Co. Sparsomycin a dihydrogen phosphate. 3,338,881, 8–29–67, Cl. 260—211.5.

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Wilfert, Karl, and B. Barényi, to Daimler-Benz Aktiengesellschaft. Vehicle roof. 3,352,600, 11–14–67, Cl. 296—137.

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Wilferth, Robert A., and E. Hartouni, to Technical Operations, Inc. Photographic product and method of making same. 3,297,444, 1–10–67, Cl. 96—94.

Wilford, Ernest, to The Bradford Dyers' Association Ltd. Stencil-printing machine. 3,302,564, 2–7–67, Cl. 101—123.

Wilford, Ernest, to The Bradford Dyers Association Ltd. Apparatus for conveying carpets. 3,320,647, 5–23–67, Cl. 26—2.

Wilford, Paul B., to United States of America, Navy. Radome nose for a missile, and method of making same. 3,336,873, 8–22–67, Cl. 102—105.

Wilford, Paul B., to United States of America, Navy. Nozzle assembly and method of molding same. 3,351,691, 11–7–67, Cl. 264—90.

Wilhelm, Alfred, and A. Lohr, to Firma F. Kuppersbusch & Sohne Aktiengesellschaft. Roasting device. 3,295,434, 1–3–67, Cl. 99—346.

Wilhelm, Alfred, and A. Löhr, to Firma F. Kuppersbusch & Sohne Aktiengesellschaft. Steam cooking apparatus. 3,353,-477, 11–21–67, Cl. 99—360.

Wilhelm, Andrew R., to United States of America, Navy. Missile transfer car. 3,319,908, 5–16–67, Cl. 248—21.

Wilhelm, Frank R., to Borg-Warner Corp. Water closet device. 3,348,242, 10–24–67, Cl. 4—41.

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Wilhelm, Harley A., and J. H. Witte, to United States of America, Atomic Energy Commission. Phosphide coating on refractory metals. 3,318,246, 5–9–67, Cl. 102—92.5.

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Luzina, Max, Louis, and Lison. 3,347,117.

Wilhelm, John A. Safety latch for door. 3,316,004, 4–25–67, Cl. 292—267.

Wilhelm, John R., and C. J. Casaleggi, to Purolator Products, Inc. Anti-drainback valve for filter. 3,339,738, 9–5–67, Cl. 210—136.

Wilhelm, John W., and W. H. Kliever, to Skidmore-Wilhelm Mfg. Co. Ultrasonic bolt tension tester. 3,306,100, 2–28–67, Cl. 73—67.2.

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Schmidt, Paul, Eichenberger, Wilhelm, and Rossi. 3,346,-568.
Schmidt, Paul, Rossi, Eichenberger, and Wilhelm. 3,318,-882.
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Wilhelmson, Donald A., to United States of America, Army. Magnetic detent. 3,344,378, 9–26–67, Cl. 335—272.

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Wilhite, Verbon H. B., to Thiokol Chemical Corp. Directional control for rockets. 3,358,932, 12–19–67, Cl. 239—265.43.

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Willisch, Horst. Shoe-heel upper forming apparatus. 3,345,661, 10–10–67, Cl. 12—54.3.

Wilk, Stanley H., to General Electric Co. Casing seal for bus bars. 3,344,229, 9–26–67, Cl. 174—151.

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Wilkes, Lawrence R.: *See*—
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Wilkins, William B., to Reinforced Plastic Container Corp. Apparatus for application of reinforcing strands to a compartmented nest. 3,296,055, 1–3–67, Cl. 156—433.
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Wilkinson, Alvin H., to Auto Crane Co. Platform assembly for a crane. 3,339,669, 9–5–67, Cl. 182—36.
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Wilkinson, Ernest J., to Sylvania Electric Products Inc. Shock resistant horn antenna. 3,334,347, 8–1–67, Cl. 343—719.
Wilkinson, Geoffrey, to Ethyl Corp. Process for preparing manganese cyclohexadienyl tricarbonyls. 3,345,390, 10–3–67, Cl. 260—429.
Wilkinson, George C., Jr., to Collins Radio Co. Phase locked crystal controlled oscillator. 3,345,579, 10–3–67, Cl. 331—8.
Wilkinson, Harry, and D. E. Hutchinson, to The English Electric Co. Ltd. Gear type transmission. 3,308,684, 3–14–67, Cl. 74—626.
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Wilkinson, Harry W., to Litton Precision Products, Inc. Miniature motor assembly. 3,310,691, 3–21–67, Cl. 310—42.
Wilkinson, Horace A., and E. P. Dimmock, to Monier Research & Development pty., Ltd. (formerly Monier Mechanical Research pty., Ltd.). Tube mixer for mortar. 3,348,820, 10–24–67, Cl. 259—161.
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Wilkinson, Samuel, to Burroughs Wellcome & Co. (V.S.A.) Inc. Preparation of sodium or potassium salts of polymyxin B and E or colistin formaldehyde-bisulfite reaction products. 3,317,506, 5–2–67, Cl. 260—112.5.
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Wilkinson, Thurland T., to Sinclair Research, Inc. Oscillatory actuator with self-scavenging means. 3,327,592, 6–27–67, Cl. 92—122.
Wilkinson, Walter J., B. M. Brill, and R. V. De Shay, to Monsanto Co. Dry type and paste type joint cements containing polyvinyl acetate and polyvinyl alcohol as binders. 3,342,-761, 9–19–67, Cl. 260—17.4.
Wilkinson, Wilfred H., to Rolls-Royce Ltd. Bladed rotors for use in gas turbine engines. 3,352,538, 11–14–67, Cl. 253—77.
Wilkinson, William K., to E. I. du Pont de Nemours and Co. Color improvement treatment of dialkylamides. 3,316,298, 4–25–67, Cl. 260—561.
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Wilkus, Edward V., and A. Berger, to General Electric Co. Metallocenyl substituted organosilicon materials and a method for making them. 3,313,835, 4–11–67, Cl. 260—429.
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Will, Frederick R. Motorcycle carrier. 3,348,713, 10–24–67, Cl. 214—450.
Will, Gerlad H., to Minnesota Mining and Mfg. Co. Shipping container. 3,353,660, 11–21–67, Cl. 206—52.
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Willard, Charles L., C. V. O'Hara, and A. F. Neel, to Connor Spring Mfg. Co. Spring handling apparatus. 3,312,453, 4–4–67, Cl. 263—7.
Willard, David S., to United States of America, Air Force. Command generator for remote control systems. 3,327,304, 6–20–67, Cl. 340—348.
Willard, David S., to United States of America, Air Force. Transistorized amplifier using an emitter follower, a resonant circuit and a mixer connected in cascade. 3,356,951, 12–5–67, Cl. 325—434.
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Willard, John W., Sr., and J. Brorby, to J.B. Oil Treatment Co., Inc. Method of removing solid paraffin-containing deposits from oil well surfaces. 3,342,265, 9–19–67, Cl. 166—38.
Willard, Miles J. Potato cooking and mashing. 3,333,966, 8–1–67, Cl. 99—100.
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Willems, Ebertus, and M. H. W. Leenaerts, to North American Philips Co., Inc. Circuit arrangement for supplying a voltage to a load. 3,340,404, 9–5–67, Cl. 307—88.5.
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Willette, Ernest M. Sand and water toy. 3,295,252, 1–3–67, Cl. 46—91.
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Willey, Donald A. Power operated wheel blocks. 3,305,049, 2–21–67, Cl. 188—32.
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Williams, Albert J., Jr., and N. E. Polster, to Leeds and Northrup Co. Controller including reset and proportional actions. 3,324,404, 6–6–67, Cl. 330—10.
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Williams, Alfred J., Jr., and D. J. Johns, to General Motors Corp. Electrical stock removal apparatus. 3,354,073, 11–21–67, Cl. 204—224.
Williams, Allan E., to Thiokol Chemical Corp. Laminated material and arrangement thereof for use in pressure vessels. 3,296,802, 1–10–67, Cl. 60—256.
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Williams, Allan E., L. M. Dyson, and L. F. Matthies, to Thiokol Chemical Corp. High energy additive addition means to a rocket motor. 3,328,964, 7–4–67, Cl. 60—253.
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Williams, Arthur J., to Commercial Shearing & Stamping Co. Fluid control valves with float position. 3,346,012, 10–10–67, Cl. 137—625.69.
Williams, Arthur L., to The Armstrong Rubber Co. Apparatus for forming beads for pneumatic tires. 3,330,491, 7–11–67, Cl. 242—7.
Williams, Betty C. Coin-controlled hair spray. 3,300,092, 1–24–67, Cl. 222—70.
Williams, Betty J. Teaching device. 3,333,351, 8–1–67, Cl. 35—35.
Williams, Beverly E. Plastic-coated containers. 3,317,107, 5–2–67, Cl. 229—3.5.
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Riley, James E., and Williams. 3,320,484.
Williams, Billy L. Pipe-type cigarette holding and smoking device. 3,336,929, 8–22–67, Cl. 131—175.
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Williams, Carl D., to Robertshaw Control Co. Temperature control apparatus and method. 3,333,086, 7–25–67, Cl. 219—501.
Williams, Charles A. Hair clipper attachment. 3,344,520, 10–3–67, Cl. 30—200.
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Williams, Charles L. Apparatus for painting screw heads. 3,344,769, 10–3–67, Cl. 118—69.
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Williams, Drew A. Live animal trap. 3,348,331, 10–24–67, Cl. 43—61.

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Williams, Harold A. Grading device and method of grading and marking. 3,311,980, 4–4–67, Cl. 33—17.

Williams, Harrison L., and D. M. G. Banhidy, to Preformed Line Products Co. Appliance for linear bodies. 3,302,346, 2–7–67, Cl. 52—147.

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Williams, James E. Complete circle swing. 3,298,685, 1–17–67, Cl. 272—33.

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Williams, Lemual W.: *See*—
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Williams, Sherrod A., Jr., to Mobil Oil Corp. Stable aqueous treating liquid for permeable earth formations. 3,303,879, 2–14–67, Cl. 166—9.

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Williams, Stanley E., R. B. Dunbar, and J. C. Rademaker, to Johns-Manville Corp. Manufacture of calcium silicate insulating products. 3,352,746, 11-14-67, Cl. 162—153.

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Willinger, Allan H., to Aquariums Inc. Aquarium filter. 3,321,082, 5-23-67, Cl. 210—169.

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Willson, James R., to Robertshaw Controls Co. Double burner oven control system. 3,312,397, 4-4-67, Cl. 236—15.

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Wilson, Curtis L. Vacuum cleaner. 3,318,075, 5–9–67, Cl. 55—228.
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Wilson, Earl W., and C. W. Hequembourg, to Eastman Kodak Co. Polyesters of tetraalkylcyclobutanediol. 3,360,547, 12–26–67, Cl. 260—485.
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Wilson, George S. Blade guards for safety razors. 3,335,491, 8–15–67, Cl. 30—90.
Wilson, Glenn C. Carrying handles. 3,306,507, 2–28–67, Cl. 224—45.
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Wilson, John H. Pipe handling device. 3,312,294, 4–4–67, Cl. 173—164.
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Wilson, John H. Pipe tongs. 3,316,783, 5–2–67, Cl. 81—54.
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Wilson, Walter, and H. May, to British Industrial Plastics Ltd. Process for preparation of styrene-oxymethylene copolymers and resulting product. 3,317,477, 5–2–67, Cl. 260—73.
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Wilson, William B., to National Lock Co. Heavy duty door lock set. 3,354,676, 11–28–67, Cl. 70—146.
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Windholz, Thomas B., A. A. Patchett, and J. Fried, to Merck & Co., Inc. 13-alkyl-gona-4,8(14),9(10) trien-3-one-17*a* halogenated hydrocarbon 17*β*-ethers. 3,322,754, 5–30–67, Cl. 260—239.5.
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Winter, Joseph, to Olin Mathieson Chemical Corp. Method of fabricating non-earing aluminum. 3,318,738, 5–9–67, Cl. 148—2.

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Winter, Nikolaus, to Mechanische Baumwollspinnerei und Weberei Augsburg. Automatic doffing apparatus. 3,350,868, 11–7–67, Cl. 57—52.

Winter, Paul H., to Pass & Seymour, Inc. Mounting for semiconductors. 3,327,180, 6–20–67, Cl. 317—234.

Winter, Paul H., to Pass & Seymour, Inc. Dead front connector cap or cord connector with integrally molded cord grip. 3,328,748. 6–27–67, Cl. 339—107.

Winter, Paul H., to Pass & Seymour, Inc. Screw socket. 3,360,768, 12–26–67, Cl. 339—199.

Winter, Robert J. Contactless variable resistor. 3,302,151, 1–31–67, Cl. 338—79.

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Heitler, Emmett H., Axtell, Fujioka, and Winter. 3,306,-403.

Winter, Willibald. Container. 3,295,745, 1–3–67, Cl. 229—67.

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Winters, Harry K., to Ray Oil Burner Co. Motion transmitting linkage with variable transmission means. 3,352,167, 11–14–67, Cl. 74—96.

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Wintriss, George, to Industrionics Controls, Inc. Power-operated tool actuator. 3,358,096, 12–12–67, Cl. 200—81.6.

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Wood, Derek, to Bell Aerospace Corp. Redundant control system. 3,338,139, 8–29–67, Cl. 91—411.

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Zabel, Robert L. Sewage disposal septic tanks. 3,332,552, 7–25–67, Cl. 210—86.
Zabel, William P., Jr. Unloading system for bulk materials. 3,358,858, 12–19–67, Cl. 214—62.
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Zima, Gordon E., and J. F. Lakner, to United States of America, Atomic Energy Commission. Method for producing high density tungsten ingots. 3,356,495, 12–5–67, Cl. 75—214.

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Zimmer, Karl F., to Dr. Reutlinger & Sohne. Device for measuring axial displacement of a shaft. 3,307,164, 2–28–67, Cl. 340—195.

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Zimmerley, Stuart R., and R. R. Beck, to Kennecott Copper Corp. Process for the recovery of molybdenum values from ferruginous, molybdenum-bearing slags. 3,314,783, 4–18–67, Cl. 75—108.

Zimmerley, Stuart R., E. E. Malouf, J. D. Prater, and A. K. Schellinger, to Kennecott Copper Corp. pH adjusted, controlled-iron-content, cyclic leaching processes for copper-bearing rock materials. 3,330,650. 7–11–67. Cl. 75—104.

Zimmerley, Stuart R., and E. E. Malouf, to Kennecott Copper Corp. Process and apparatus for the precipitation of substances from solution using solid precipitants. 3,333,953, 8–1–67, Cl. 75—109.

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Zimmerman, Klaus-Dieter, to North American Philips Co., Inc. Method for forming a metallic coating on an object. 3,318,726, 5–9–67, Cl. 117—112.

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Zimmerman, Robert L., and J. R. Harvey, to The Dow Chemical Co. Coating compositions of vinyl aromatic-maleic half ester copolymers, epoxy resins and urea formaldehyde resins. 3,317,457, 5–2–67, Cl. 260—39.

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Zimmerman, Robert L., and W. E. O'Connor, to The Dow Chemical Co. Continuous preparation of thermoplastic copolymers and terpolymers of unsaturated cyclic anhydrides. 3,336,267, 8–15–67. Cl. 260—78.5.

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Zimmermann, Markus, to Geigy Chemical Corp. Sulfanilamides. 3,308,119, 3–7–67, Cl. 260—239.75.

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Ziselberger, Albert E., ½ of an undivided (64%) each to S. H. Eliason, E. L. Hildebrand, S. H. Eliason, Jr., and 8% of the entire right to W. C. Headlee. Ball mill for forming liquid suspensions of finely divided solid material. 3,301,495, 1–31–67, Cl. 241—62.

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Birsan, Saul, P. M. Prussak, and A. M. Sheldon. Dispénser top or similar article for a pressurized can. 207,885, 6-6-67, Cl. D58—26.
Bisanar, George E. Left foot rest for automobile operator. 208,403, 8-29-67, Cl. D14—6.
Bisch, John W., to Owens-Illinois, Inc. Bottle. 207,804, 5-30-67, Cl. D58—9.
Bissell Inc.: *See*—
Anderson, Howard A. 207,632.
Anderson, Howard A. 208,994.
Anderson, Howard A., and Rosendall. 208,995.
Anderson, Howard A., and Rosendall. 208,987.
Anderson, Howard A., and Rosendall. 208,988.
Anderson, Howard A., and Rosendall. 208,989.
Anderson, Howard A., and Rosendall. 208,990.
Anderson, Howard A., and Rosendall. 208,991.
Anderson, Howard A., and Rosendall. 208,992.
Anderson, Howard A., and Rosendall. 208,993.
Anderson, Howard A., and Yonkers. 208,997.
Bissonnette, Albert E. Container opener. 207,498, 4-25-67, Cl. D44—29.
Bixby, Leon C. Grill. 207,469, 4-18-67, Cl. D81—25.
Bjorn, Acton, to Eumig Elektrizitaets- und Metallwaren Industrie. Camera, or the like. 207,513, 4-25-67, Cl. D61—1.
Bjorn, Acton, to Eumig Elektrizitats- und Metallwaren, Industrie. Camera. 207,811, 5-30-67, Cl. D61—1.
Black and Decker Mfg. Co., The: *See*—
Averitt, Marnie C. 208,212.
Averitt, Marnie C., and Dickson. 207,856.
Blackwell Electronics Ind. Co.: *See*—
Daito, Hiroshi. 209,080.
Blackwell Electronics Ind., Co., Ltd.: *See*—
Daito, Hiroshi. 208,490.
Blaho, Rudolph G.: *See*—
Brilando, Frank P., Jameson, and Blaho. 208,128.
Blair, Warren, and D. E. Dailey, to Smith Kline & French Laboratories. Blood velocity indicator. 207,518, 4-25-67, Cl. D83—1.
Blair, William K., Sr. Eating tray. 207,062, 2-28-67, Cl. D44—10.
Blaisdell Pencil Co.: *See*—
Seeman, Robert W. 206,918.
Blakely, John W. Multiple swivel clamp for tubes. 207,603, 5-9-67, Cl. D54—1.
Blanchard, Donn C. Canopy cover for bicycles. 207,473, 4-18-67, Cl. D90—1.
Blankenship, Arthur C., R. F. Busch, and W. L. Shesterkin, to Uniroyal, Inc. Tire. 207,574, 5-2-67, Cl. D90—20.
Blazek, Donald F., to Chicago Aerial Industries, Inc. Printer-processor for photographic film. 206,694, 1-10-67, Cl. D61—1.
Blazon, Inc.: *See*—
Grudoski, Daniel P. 208,922.
Walklet, Mercer D. 208,483.
Blevio, Henry. Bathroom unit. 207,301, 4-4-67, Cl. D4—4.
Bliss, Beatrice. Rotatable canister unit. 208,806, 10-3-67, Cl. D44—6.
Blitzer, Jacob H., Jr., to Integrated Ceilings, Inc. Light-ray baffle. 208,367, 8-22-67, Cl. D48—16.
Block China Co.: *See*—
Gulotta, Gerald. 208,158.
Block, Jack, and V. Marchi, to Foster Grant Co., Inc. Pair of sunglasses or the like. 207,029, 2-21-67, Cl. D57—1.
Block, Manfred, and G. McWilliams, to Vistavan Ltd. Van superstructure. 207,398, 4-11-67, Cl. D14—3.
Bloomingdale, Alfred S.: *See*—
Price, Harold A. 207,814.
Bloomingdale, Alfred S., and J. G. Moran. Motorized surfboard or similar article. 209,433, 11-28-67, Cl. D71—1.
Blount, Bill G. Combined paintbrush handle and disposable bristles. 206,996, 2-21-67, Cl. D9—2.
Blount, Bill G. Combined disposable bristle unit and adjustable paint brush handle. 209,572, 12-19-67, Cl. D9—2.
Blount, Golden, to Apsco Products, Inc. Tape embossing device. 208,273, 8-8-67, Cl. D64—10.
Bluegate Candle Co.: *See*—
Crumrine, Lucius M., Jr. 209,487.
Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Railing. 206,652, 1-10-67, Cl. D13—7.
Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Combined handrailing and railing post. 206,935, 2-14-67, Cl. D13—7.
Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Railing. 208,534, 9-12-67, Cl. D13—7.
Blum, Louis, and W. J. Horgan, Jr., to Blumcraft of Pittsburgh. Ornamental railing. 209,134, 11-7-67, Cl. D13—7.
Blumcraft of Pittsburgh: *See*—
Blum, Louis, and Horgan. 206,652.
Blum, Louis, and Horgan. 206,935.
Blum, Louis, and Horgan. 208,534.
Blum, Louis, and Horgan. 209,134.
Blumenfeld, Leo. Tambourine. 206,825, 1-31-67, Cl. D56—1.
Blumenthal, Martin L., to Deluxe Reading Corp. Toy stove. 207,265, 3-28-67, Cl. D34—15.
Blumenthal, Martin L., to Deluxe Reading Corp. Toy washing machine. 207,266, 3-28-67, Cl. D34—15.
Blumenthal, Martin L., to Deluxe Reading Corp. Toy iron. 207,269, 3-28-67, Cl. D34—15.
Blumenthal, Martin L., to De Luxe Reading Corp. Mobile artillery toy. 208,059, 7-11-67, Cl. D34—15.
Blumstein, Stanley, and A. V. Tornek. Packaged watch. 208,822, 10-3-67, Cl. D58—2.
Bobchik, Robert A. Headrest. 206,938, 2-14-67, Cl. D15—8.
Bobrick, Mitchell. Ventilated lens for lighting fixtures. 206,817, 1-31-67, Cl. D48—16.
Bobrick, Mitchell. Ventilated lens for lighting fixtures. 207,499, 4-25-67, Cl. D48—16.
Bobrick, Mitchell. Post light. 208,325, 8-15-67, Cl. D48—31.
Bode, Charles H.: *See*—
Zern, Warren B., and Bode. 207,628.
Bodian, Marcus, to Sunbeam Lighting Co. Inc. Hospital bed light fixture and service console. 207,271, 3-28-67, Cl. D48—20.
Bodian, Marcus, to Sunbeam Lighting Co. Inc. Examination light. 207,549, 5-2-67, Cl. D48—20.
Bodian, Marcus, to Sunbeam Lighting Co., Inc. Combined extensible examination lamp and cabinet therefor. 207,597, 5-9-67, Cl. D48—20.
Bodian, Marcus, to Sunbeam Lighting Co., Inc. Combined hospital bed lamp and service console unit and extensible reading lamp. 207,598, 5-9-67, Cl. D48—20.
Boeing Co., The: *See*—
Schairer, George S., Cook, Alexander, Whitener, and Wadleigh. 208,678.
Bogan, Robert T., Jr. Decorative grillework. 206,651, 1-10-67, Cl. D13—1.
Bogan, Robert T., Jr. Grillework. 207,992, 6-27-67, Cl. D13—1.
Bogan, Robert T., Jr. Grille. 207,993, 6-27-67, Cl. D13—1.
Bogan, Robert T., Jr. Grillework. 207,994, 6-27-67, Cl. D13—1.
Bohm, Fred: *See*—
Allen, Grant E., Jr., and Bohm. 207,056.
Boldt, Melvin H., to Canteen Corp. Remote control unit for an automatic phonograph. 206,939, 2-14-67, Cl. D26—13.
Boldt, Melvin H., to Zenith Radio Corp. Radio control knob or similar article. 207,536, 5-2-67, Cl. D26—13.
Boldt, Melvin H., to Zenith Radio Corp. Portable radio cabinet. 208,165, 7-25-67, Cl. D56—4.
Boldt, Melvin H., to Zenith Radio Corp. Radio control knob or similar article. 208,194, 8-1-67, Cl. D26—13.
Bolick, Fred C., Jr., to Lanier Electronics Laboratory. Portable lectern. 206,755, 1-24-67, Cl. D33—7.
Bolick, Fred C., Jr., to Lanier Electronics Laboratory. Book binding machine. 207,164, 3-14-67, Cl. D6—1.
Bollig, Ruth M. Drawstring handbag or the like. 209,727, 12-26-67, Cl. D87—3.
Bolt Beranek and Newman Inc.: *See*—
Rosay, Lincoln P. 208,781.
Bolton-Emerson, Inc.: *See*—
Fossella, Gregory F. 207,424.
Bonaud, Raymond F., to Le Foyer et Cie. Pen. 209,030, 10-24-67, Cl. D74—17.
Bond Street Ltd.: *See*—
Schlessinger, Ludwig S. 209,371.
Bonito, Vincent. Hand tool for stripping, crimping, and cutting wire or the like. 209,058, 10-31-67, Cl. D26—13.
Bonk, Eugene T., and Q. R. Sharp, to Addressograph-Multigraph Corp. Combined desk and photocopy apparatus. 208,412, 8-29-67, Cl. D33—7.
Bonzer, Lawrence W. Hand vacuum cleaner. 208,627, 9-19-67, Cl. D9—2.
Boothby, Alfons: *See*—
Demmel, Anton E., Boothby, and Sieber. 207,467.
Borasio, Leo, S. A. Ronlov, and C. C. Jancewicz, to United States Borax & Chemical Corp. Headframe. 207,486, 4-25-67, Cl. D13—1.
Borg-Warner Corp.: *See*—
Armstrong, William H. 207,576.
Armstrong, William H. 209,033.
Keats, John B. 208,121.

Borick, Louis L. Automobile rooftop air deflector. 206,872, 2-7-67, Cl. D14—6.
Bortz, Harold E. Flashlight. 209,464, 12-5-67, Cl. D48—24.
Boss, William O.: *See*—
Roston, Robert J., Boss, and Holt. 209,443.
Boster, Samuel B. Measuring spoon. 208,366, 8-22-67, Cl. D44—29.
Bott, John A. License plate frame. 208,051, 7-11-67, Cl. D14—6.
Bottenberg, Warren E., to B-M-B Co., Inc. Rotary mower. 206,756, 1-24-67, Cl. D40—1.
Bouchard, Joel J., to Jo Bud, Inc. Collapsible trailer. 208,695, 9-26-67, Cl. D14—3.
Bouse, Norman C.: *See*—
Boxer, Steve, and Bouse. 208,071.
Bowers, Robert E. Coffee table. 207,263, 3-28-67, Cl. D33—14.
Bowes, John G., and J. N. Rosekrans, Jr., to Kransco Mfg., Inc. Children's sled or similar article. 208,362, 8-22-67, Cl. D34—15.
Bowker, Earl R., to Anfinsen Plastic Molding, Inc. Tamper-proof cap for container. 207,033, 2-21-67, Cl. D58—26.
Bowler, Thomas, to Canton Cotton Mills. Toy dog figure. 208,196, 8-1-67, Cl. D34—2.
Bowman, George E.: *See*—
Koeber, Theodore H., Bowman, and Kolak. 208,697.
Boxer, Steve, to Debs Sunglass Corp. Pair of clip-on sunglasses. 208,069, 7-11-67, Cl. D57—1.
Boxer, Steve, to Debs Sunglass Corp. Pair of clip-on sunglasses. 208,070, 7-11-67, Cl. D57—1.
Boxer, Steve. Pair of spectacles or the like. 208,270, 8-8-67, Cl. D57—1.
Boxer, Steve. Pair of spectacles or the like. 208,270, 8-8-67, Cl. D57—1.
Boxer, Steve, and N. C. Bouse. Sunshade attachment for a pair of spectacles or the like. 208,071, 7-11-67, Cl. D57—1.
Boyd, Lewis W., W. R. Johnson, and W. F. Gray, to Battle Creek Equipment Co. Portable seat for attachment to a steam cabinet or similar article. 209,282, 11-21-67, Cl. D15—8.
Boysen, Gerd C.: *See*—
Walters, Robert E., and Boysen. 209,513.
Bozek, John S., to Continental Can Co., Inc. Container end. 208,591, 9-12-67, Cl. D58—26.
Bozovic, Ursula, to Daintifyt Brassiere Co. Ltd. Girdle. 206,989, 2-21-67, Cl. D2—2.
Bozovic, Ursula, to Daintifyt Brassiere Co. Ltd. Girdle. 206,990, 2-21-67, Cl. D2—2.
Bradford, Odie, to Aeolian Corp. Stand up piano. 207,878, 6-6-67, Cl. D56—9.
Bradley, David E. Hose coil holder. 207,295, 3-28-67, Cl. D91—1.
Braginetz, Paul A., to Philip Morris Inc. Shaving blade dispenser. 207,121, 3-7-67, Cl. D52—2.
Braided Products Ltd.: *See*—
Surkes, Edward Z. 207,976.
Braiman, Jerry, and E. W. Shieb, to P. R. Mallory & Co., Inc. Housing for a capacitor device. 209,054, 10-31-67, Cl. D26—1.
Brand, Robert J., to Apsco Products, Inc. Desk model pencil sharpener. 206,777, 1-24-67, Cl. D74—21.
Brandenberg, Karl A., to The Aro Corp. Pressure indicator. 207,971, 6-20-67, Cl. D52—6.
Brandon, Richard N. Household wrap dispensing container. 208,102, 7-18-67, Cl. D52—2.
Branson Instruments, Inc.: *See*—
Yurdin, Carl R. 207,122.
Bratton, Oran D., to Mid-America Fabrication Co. Cart for carrying refuse receptacles. 208,854, 10-10-67, Cl. D14—3.
Braun Aktiengesellschaft: *See*—
Weiss, Reinhold. 207,859.
Weiss, Reinhold. 209,652.
Braun, Emil J., to Valv-O-Matic, Inc. Coin operated locking rack for skis. 206,920, 2-7-67, Cl. D80—10.
Braun, Samuel, to B. C. N. Design Products, Inc. Display container. 207,353, 4-4-67, Cl. D58—12.
Braun, Samuel, to B.C.N. Design Products, Inc. Box. 207,559, 5-2-67, Cl. D58—12.6.
Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 207,560, 5-2-67, Cl. D58—12.7.
Braun, Samuel, to B. C. N. Design Products, Inc. Display box. 207,806, 5-30-67, Cl. D58—12.6.
Braun, Samuel, to B. C. N. Design Products, Inc. Shoe shine box. 208,050, 7-11-67, Cl. D9—2.
Braun, Samuel, to The International Silver Co. Chest for silverware or the like. 208,506, 9-5-67, Cl. D58—12.6.
Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 208,828, 10-3-67, Cl. D58—12.
Braun, Samuel. Display box. 208,832, 10-3-67, Cl. D58—12.6.
Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 209,477, 12-5-67, Cl. D58—12.7.
Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 209,478, 12-5-67, Cl. D58—12.7.
Bravo, Joel W., and P. Matwey, to General Aniline & Film Corp. Support stand for an office machine. 209,680, 12-26-67, Cl. D33—3.
Bray, Rosa N. Article storage unit. 207,902, 6-13-67, Cl. D14—6.
Brearley Co., The: *See*—
Aleks, Vytant, and Brearley. 208,763.
Aleks, Vytant, and Brearley. 209,039.
Aleks, Vytant, and Brearley. 209,040.
Brearley, John C.: *See*—
Aleks, Vytant, and Brearley. 208,763.
Aleks, Vytant, and Brearley. 209,039.
Aleks, Vytant, and Brearley. 209,040.
Brefka, Paul E., to LDA, Inc. Condiment dispenser. 207,175, 3-14-67, Cl. D44—6.
Bremshey & Co.: *See*—
Bremshey, Fritz, and Fülling. 207,767.
Bremshey, Fritz, and W. Fülling, to Bremshey & Co. Power-operated carving knife. 207,767, 5-23-67, Cl. D95—3.
Brenner, Robert R. Exerciser. 208,924, 10-17-67, Cl. D34—5.
Brenner, Roy L., to Kinkead Industries Inc. Carpet stretcher. 206,615, 1-3-67, Cl. D54—13.
Bressickello, Tony J. Combined food warmer and display device. 209,257, 11-14-67, Cl. D81—10.
Brickman, Harold, and R. Deschamps. An illuminable vanity case or similar article. 209,120, 10-31-67, Cl. D87—5.
Bridges, Harry, to Needle Industries Ltd. Seam ripper or the like. 207,332, 5-30-67, Cl. D95—1.
Briggin, Edward: *See*—
Katzman, Lawrence, Briggin, D'Elia, and Stolarz. 209,364.
Briggs, Southwick W., and W. A. Brazerol. Filter paper. 207,487, 4-25-67, Cl. D16—1.
Brigham, Owsley H. Underwater diving light. 209,162, 11-7-67, Cl. D48—24.
Brilando, Frank P., S. R. Jameson, and R. G. Blaho, to Arnold, Schwinn & Co. Twin control lever assembly for bicycles. 208,128, 7-18-67, Cl. D90—11.
Briles, Franklin S. Toilet paper dispenser. 208,143, 7-25-67, Cl. D4—3.
Brindle, John H.: *See*—
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British Industries Corp.: *See*—
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British Oxygen Co. Ltd., The: *See*—
Foxwell, Jack S. 206,834.
Britt, James E., G. D. Del Vecchio, and M. C. Stessel, to Xerox Corp. Cabinet for sorting and holding sheets of printed material. 209,408, 11-28-67, Cl. D33—19.
Britt, James E., G. D. Del Vecchio, and M. C. Stessel, to Xerox Corp. Modular cabinet for sorting and holding sheets of printed material. 209,409, 11-28-67, Cl. D33—19.
Broad, Reginald J. Car door handle. 209,041, 10-31-67, Cl. D10—8.
Brock, Victor. Tie down fitting. 209,172, 11-7-67, Cl. D54—11.
Brockway, Brock F., to E. D. Bullard Co. Box. 209,629, 12-19-67, Cl. D58—12.6.
Broder, Leonard J. Food service plate. 208,317—8-15-67, Cl. D44—10.
Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 207,762, 5-23-67, Cl. D87—3.
Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 207,763, 5-23-67, Cl. D87—3.
Brodin, Bengt O. I., to Joh. Mustad AB. Musical instrument. 206,683, 1-10-67, Cl. D56—2.
Brodin, Bengt O. I., to Joh. Mustad, A/B. Musical instrument. 208,727, 9-26-67, Cl. D56—9.
Brodsky, David L.: *See*—
Wood, Donald H., Brodsky, James, and Roth. 208,308.
Brookes, Ronald E., to L. G. Harris Co., Ltd. Brush. 209,130, 11-7-67, Cl. D9—2.
Brooks, Albert E., Jr., to Electric Lighting, Inc. Outdoor lighting fixture. 208,491, 9-5-67, Cl. D48—31.
Brooks, Bert, to H. J. Ashe. Rechargeable flashlight. 208,368, 8-22-67, Cl. D48—24.
Brooks, William H. Cigar case. 208,343, 8-15-67, Cl. D85—2.
Brookshire, Phillip L., to The Witt Co. Waste receptacle. 208,589, 9-12-67, Cl. D58—17.
Brophy, Stella M. Thimble. 208,047, 7-11-67, Cl. D3—19.
Brosig, Heinz, to National Aeronautics and Space Administration under the provisions of 42 U.S.C. 2457(d). Trailer. 208,768, 10-3-67, Cl. D14—3.
Bross, Helmut. Housing for writing instrument. 208,960, 10-17-67, Cl. D74—17.
Bross, Helmut. Housing for writing instrument. 208,961, 10-17-67, Cl. D74—17.
Brosseau, Pierre, Jr., and R. E. Kennedy, to Anelex Corp. Printer console. 208,279, 8-8-67, Cl. D64—11.
Brounn, Morris J., and A. T. C. Peters, to Otis Elevator Co. Light diffusing grille. 207,455, 4-18-67, Cl. D48—16.
Browder, Jack E. Combined coin holder and dispenser. 207,021, 2-21-67, Cl. D52—4.
Brown, Charles I. Hamburger press. 206,606, 1-3-67, Cl. D44—1.
Brown, Charles I. Jar wrench. 208,321, 8-15-67, Cl. D44—29.
Brown, Charles I. Jar wrench. 208,322, 8-15-67, Cl. D44—29.
Brown, Donald D. Combination shampoo dispenser and massage brush. 207,774, 5-30-67, Cl. D9—2.
Brown, Dwight L. House. 209,662, 12-26-67, Cl. D13—1.
Brown, Hugh O., to Beckman Instruments, Inc. Turns counter. 206,768, 1-24-67, Cl. D52—6.
Brown, Julian A.: *See*—
Joelson, Eric H., and Brown. 208,540.
Brown, Roy C., to Artistic Wire Products Co., Inc. Display stand. 206,736, 1-17-67, Cl. D80—10.
Brown, Roy C., to Artistic Wire Products Co., Inc. Display stand. 206,737, 1-17-67, Cl. D80—10.

Brown, Roy C., to Artiatic Wire Products Co., Inc. Clip for a display stand for sunglasses or the like. 207,933, 6–13–67, Cl. D80—10.

Brown, Verle H., to E. Sam Dick Co., Inc. Pressure storage tank. 209,266, 11–14–67, Cl. D91—1.

Bruce, Geoffrey H. Housing for television receiver. 208,710, 12–26–67, Cl. D56—4.

Bruce Molded Plastic Products, Inc.: *See*—
Marks, Lou F. 209,726.

Bruder, Robert I., to Litton Precision Products, Inc. Microwave oven. 207,286, 3–28–67, Cl. D81—26.

Brunderman, Vincent G. Combined nut picker and shell cracker. 208,871, 10–10–67, Cl. D44—1.

Bruno, Edward C. Display pedestal for fruit or the like. 206,919, 2–7–67, Cl. D80—9.

Bruno, Enrico, to Maidenform Inc. Brassiere. 207,624, 5–16–67, Cl. D2—24.

Bruns, Herbert F. Electric air director. 207,361, 4–4–67, Cl. D62—4.

Brunswick Corp.: *See*—
Hart, George H., and Arnold. 209,522.
Wilkens, Howard J. 208,985.

Buchner, Frank T., to Products Marketing Corp. Combined compact and holder for lipstick or the like. 209,182, 11–7–67, Cl. D86—10.

Buckler, George M., to General Electric Co. Portable stereo phonograph. 206,906, 2–7–67, Cl. D56—4.

Buckler, George M., to General Electric Co. Portable phonograph or similar article. 206,907, 2–7–67, Cl. D56—4.

Buckler, George M., to General Electric Co. Combined cover and speaker enclosure for portable phonographs. 209,334, 11–21–67, Cl. D56—4.

Bucknell, Ernest H., J. K. Raub, and I. A. Ward. Spray valve. 207,440, 4–11–67, Cl. D91—3.

Buckner Industries, Inc.: *See*—
Royer, John A. 207,848.

Buday, Eugene, to Wyott Corp. Grill. 207,893, 6–6–67, Cl. D81—10.

Budd Co., The: *See*—
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Johnson, Donald D. 209,034.

Buffington, Larry J. Combined lamp and clock or similar article. 208,809, 10–3–67, Cl. D48—20.

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Wah, Joe M., and Johnson. 209,576.

Bulbarelli, Franco, and O. Mastrorilli. Hair straightening clamp. 207,146, 3–7–67, Cl. D66—10.

Bulin, Shelly A., to J. I. Case Co. Self-propelled combine. 207,107, 3–7–67, Cl. D40—1.

Bull-General Electric Societe Industrielle (Societe Anonyme): *See*—
Sottsass, Ettore, Jr. 208,915.
Sottsass, Ettore, Jr. 208,916.
Sottsass, Ettore, Jr. 209,449.
Sottsass, Ettore, Jr. 209,450.

Bullard, E. D. Co.: *See*—
Brockway, Brock F. 209,629.

Bullard, Willie B. Lockable cover for a bottled gas regulator. 208,016, 6–27–67, Cl. D91—1.

Bulman, E. O., Mfg. Co., Inc., The: *See*—
Waltz, Edward. 208,512.
Waltz, Edward. 208,597.

Bulova Watch Co., Inc.: *See*—
Beck, Philip. 206,963.

Bundy, William C. Flexible container for pills or the like. 208,273, 8–8–67, Cl. D58—12.

Bunn-O-Matic Corp.: *See*—
Martin, John C. 209,125.
Martin, John C. 209,126.
Martin, John C. 209,127.

Burchett, Vernon L. Display stand. 206,921, 2–7–67, Cl. D80—10.

Burge, Roger M.: *See*—
Scharschmidt, Rudolph K., and Burge. 207,699.

Burgess-Day, Inc.: *See*—
Benjamin, E. Burton. 206,998.

Burian, Paul D., and R. D. Dent, to McKinnen Columbus Corp. Hoist. 208,200, 8–1–67, Cl. D41—1.

Burkhardt, Norman, to Jarco Metal Products Corp. Key holder. 208,720, 9–26–67, Cl. D50—4.

Burkhardt, Norman, to Jarco Metal Products Corp. Combined cosmetic and flashlight holder. 208,842, 10–3–67, Cl. D86—10.

Burkland, Carl. Golf putter. 207,538, 5–2–67, Cl. D34—5.

Burkland, Carl. Golf putter. 207,539, 5–2–67, Cl. D34—5.

Burlingame, Bernard. Antenna for indoor radio or television set. 209,402, 11–28–67, Cl. D26—14.

Burnbaum, Jack. Hanger for a Christmas tree ornament or similar article. 206,659, 1–10–67, Cl. D17—12.

Burnbaum, Jack. Hanger for Christmas tree ornaments or similar article. 206,660, 1–10–67, Cl. D17—12.

Burnbaum, Jack. Hanger for a Christmas tree ornament or similar article. 206,661, 1–10–67, Cl. D17—12.

Burnbaum, Jack. Decorative chain for a Christmas tree. 207,319, 4–4–67, Cl. D29—1.

Burnbaum, Jack. Garland for a Christmas tree. 209,517, 12–12–67, Cl. D29—1.

Burns, Dorcey A., Jr., and J. D. Durham; said Durham assor. to said Burns. Coin operated amusement machine. 208,197, 8–1–67, Cl. D34—5.

Burnsworth, Richard E., J. W. Kirkpatrick, and W. J. Schade. Carton for comestibles. 207,244, 3–21–67, Cl. D58—11.

Burnsworth, Richard E., J. W. Kirkpatrick, and W. J. Schade, to SBK Inc. Egg carton. 209,628, 12–19–67, Cl. D58—11.

Burrough, Donald E.: *See*—
Conner, James M., Burrough, Fairbank, Soteropulos, and Dreyfuss. 208,486.

Burrough, Donald E., and T. M. Barnes, to Deere & Co. Combined mower, conditioner, and windrower. 208,156, 7–25–67, Cl. D40—1.

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Hopkins, Kenneth A., and Waechter. 209,509.
Macker, John A., and Bewley. 209,508.
Rayfield, Harry F., and Kjos. 207,058.

Burrows, Milford D., P. H. Morganson, and P. J. Quedens, to The Stanley Works. Router. 207,384, 4–4–67, Cl. D93—2.

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Busch, Albert G. Electrical accessory plug for automobile cigar lighters or the like. 209,284, 11–21–67, Cl. D26—1.

Busch, Edwin. Self-contained film projection cabinet. 209,636, 12–19–67, Cl. D61—1.

Busch, Robert F.: *See*—
Blankenship, Arthur C., Busch, and Shesterkin. 207,574.

Butler Industries, Inc.: *See*—
Goldstein, Arthur, and Sobel. 207,041.

Butler Mfg. Co.: *See*—
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Buzard, George. Combined toothbrush and dentifrice tube holder. 206,858, 2–7–67, Cl. D4—3.

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Cabell, Douglas N., to Ronson Corp. Combined food mixer and can opener or the like. 206,944, 2–14–67, Cl. D44—1.

Cadaret, Robert A.: *See*—
Saunders, Seymour G., Jr., and Cadaret. 209,673.

Calafano, Ernest: *See*—
Schwartz, Harvey A., Jacoby, and Calafano. 209,052.

Caldemeyer, Daniel F. and Lloyd O. Rocking lounge chair. 207,310, 4–4–67, Cl. D15—6.

Caldemeyer, Daniel F. and Lloyd O. Rocking lounge chair. 207,311, 4–4–67, Cl. D15—6.

Caldemeyer, Daniel F. and Lloyd O. Rocking lounge chair. 207,312, 4–4–67, Cl. D15—6.

Caldemeyer, Daniel F. and Lloyd O. Rocking lounge chair. 207,313, 4–4–67, Cl. D15—6.

Caldemeyer, Daniel F. and Lloyd O. Rocking lounge chair. 207,314. 4–4–67, Cl. D15—6.

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Caldemeyer, Daniel F. and Lloyd O. 207,314.

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Caldwell, Kenneth W. Combined votive altar and coin depository. 209,519, 12–12–67, Cl. D29—23.

Caldwell, Kenneth W. Votive altar for a vehicle or the like. 209,520, 12–12–67, Cl. D29—23.

Calgon Corp.: *See*—
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Calhoun, James R. Badge or similar emblematic article. 209,675, 12–26–67, Cl. D29—11.

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Cammilleri, Angelo M. Multi-purpose level. 208,723, 9–26–67, Cl. D52—6.

Camp, Arthur J., to Joel Patrick, Inc. Detachable station wagon top. 208,092, 7–18–67, Cl. D14—3.

Camp, William W., and R. B. Davis, to Heinemann Electric Co. Circuit breaker cap. 207,846, 6–6–67, Cl. D26—13.

Campbell, Dudley H., to Stackpole Carbon Co. Combined electrical switch and terminal socket. 208,982, 10–24–67, Cl. D26—13.

Campbell, Francis W., to General Electric Co. Console phonograph or similar article. 206,908, 2–7–67, Cl. D56—4.

Campbell, John B., to The Clorox Co. Jug. 208,215, 8–1–67, Cl. D58—5.

Campbell, Laurie J., to Louis Marx & Co., Inc. Helmet. 206,568, 1–3–67, Cl. D3—13.

Campbell, Laurie J., to Louis Marx & Co., Inc. Film projector toy. 208,558, 9–12–67, Cl. D34—15.

Campbell, Laurie J., to Louis Marx & Co., Inc. Musical toy typewriter. 208,925, 10–17–67, Cl. D34—15.

Campbell, Sherman B., C. F. Stephenson, and R. Spilman, to American Sterilizer Co. Instrument panel for a sterilizer. 209,560, 12–12–67, Cl. D83—1.

Campi, Antonia, to Societa Ceramica Italiana Richard-Ginori Societa. Bathroom ceramic wash basin or similar article. 208,762, 10–3–67, Cl. D4—2.

Campos, Adolf J. Motor vehicle. 209,505, 12–12–67, Cl. D14—3.

Canion, Claude. Fish holding fork. 208,034, 7–4–67, Cl. D44—29.

Cannon, John P., to Plattner Industries, Inc. Flashlight. 209,163, 11–7–67, Cl. D48—24.

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Cooke, George H., and Carl. 207,472.

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Carlson, Arthur W., to E. H. Sheldon & Co. Electronic laboratory work center. 207,005, 2–21–67, Cl. D16—2.

Carlson, Ernest R., to Harvey Hubbell, Inc. Light dimmer control unit. 209,141, 11–7–67, Cl. D26—13.

Carlson, Ernest R., to Harvey Hubbell, Inc. Cover for an electrical wiring device. 209,142, 11–7–67, Cl. D26—13.

Carlson, Torsten S., and J. W. Linehan, Jr., to Enthalpy Products Corp. Cooling tower, or similar article. 207,752, 5–23–67, Cl. D62—4.

Carlton, William C. Book rest. 206,593, 1–3–67, Cl. D33—3.

Carlton, William C. Book rest. 206,594, 1–3–67, Cl. D33—3.

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Carsello, Anthony J., to Ajax Hardware Mfg. Corp. Knob. 207,481, 4–25–67, Cl. D10—8.

Carsello, Anthony J. Knob. 207,482, 4–25–67, Cl. D10—8.

Carsello, Anthony J., to Space Planner Co., Inc. Free standing fireplace. 207,566, 5–2–67, Cl. D81—7.

Carsello, Anthony J., to Ajax Hardware Mfg. Corp. Cabinet hinge. 207,702, 5–23–67, Cl. D10—9.

Carsello, Anthony J., to Ajax Hardware Mfg. Corp. Drawer pull. 209,277, 11–21–67, Cl. D10—8.

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Carveth, Peter C., to The International Silver Co. Sponge applicator top for a squeeze bottle. 208,174, 7–25–67, Cl. D58—26.

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Castloo, Thomas F. Article holder for motor vehicles. 208,217, 8–1–67, Cl. D58—13.

Cecil, Harry H. Wheel hub for racing vehicle. 207,053, 2–28–67, Cl. D14—30.

Cefaly, Ralph. Dual stethoscope head. 208,125, 7–18–67, Cl. D83—12.

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Chapin, Roger F., Jr., to Westinghouse Electric Corp. Combined water cooler and cabinet. 208,738, 9–26–67, Cl. D67—4.

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Charles, Geoffrey R. S., to Chelton (Electrostatics) Ltd. Dispenser top for a pressurized can. 209,428, 11–28–67, Cl. D58—26.

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Chernock, Stephen P. Smoking pipe. 207,376, 4–4–67, Cl. D85—8.

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Christin, Georges E., to Etablissements Bertrand Faure. Travel trailer. 206,583, 1–3–67, Cl. D14—3.

Christin, Georges E., to Etablissements Bertrand Faure. Travel trailer. 206,584, 1–3–67, Cl. D14—3.

Christin, Georges E., to Etablissements Bertrand Faure. Travel trailer. 209,136, 11–7–67, Cl. D14—3.

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Church, Peter K. Combustion supporting kindling. 209,454, 12–5–67, Cl. D32—1.

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Clement, Joseph, to Modern Metal Products Co. Portable merchandise display stand. 207,817, 5–30–67, Cl. D80—9.
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Colletti, Alfonso A. Memorial lamp. 208,065. 7–11–67, Cl. D48—20.
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Duvall, Harold A., and Esler. 209,146.
Esmay, Edward N., and P. A. Hoogesteger, to Bausch & Lomb Inc. Microscope illuminator. 209,096, 10–31–67, Cl. D57—1.
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Evans, Charles S. Safety hat. 207,626, 5–16–67, Cl. D2—231.
Evans, Raymond W., Jr. Tire. 208,685, 9–19–67, Cl. D90—20.
Evans, Trevor G., to Lever Bros. Co. Container closure cap. 207,749, 5–23–67, Cl. D58—26.
Evans, Trevor G., to Lever Brothers Co. Bottle or the like. 209,714, 12–26–67, Cl. D58—8.
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Ewart, John R., to Toledo Scale Corp. Weighing scale. 207,274, 3–28–67, Cl. D52—10.
Ewart, John R., to Toledo Scale Corp. Printing machine. 207,362, 4–4–67, Cl. D64—11.

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Aylott, Eric V. 207,145.
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Laguera, Marcelo G. 207,941.
Facci, Lucille T. Tiger paw mitten. 207,442, 4–18–67, Cl. D2—367.
Facer, Grant T., to Kaiser Aluminum & Chemical Corp. Sheathing strip. 208,251, 8–8–67, Cl. D13—1.
Fagenstrom, James R. Refuse receptacle. 209,021, 10–24–67, Cl. D58—17.
Fai, Lui, to Lumina Electronics Co. Ltd. Pair of sunglasses and radio combination. 207,919, 6–13–67, Cl. D57—1.
Fair, Samuel S. Font of numerals. 207,609, 5–9–67, Cl. D64—12.
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Falkenberg, Douglass R. Drapery tie-back holder or similar article. 208,774, 10–3–67, Cl. D21—1.
Falkenberg, Douglass R. Drapery tie-back holder or similar article. 208,775, 10–3–67, Cl. D21—1.
Falkenberg, Gustave F., to Dimensional Products, Inc. Dispenser. 208,082, 7–11–67, Cl. D94—3.
Falkenberg, Gustave F., to Dimensional Products, Inc. Combined scoreboard and advertising sign. 208,923, 10–17–67, Cl. D34—5.
Faller, Robert O., to Williams Gold Refining Co. Inc. Combined tooth shade guide and sterilizing tank therefor. 208,779, 10–3–67, Cl. D24—1.
Fanslow, Ronald J., D. E. Wilkinson, and J. M. Dell, to International Harvester Co. Track roller guard. 209,193, 11–14–67, Cl. D14—3.
Farey, Francis A., to Ampex Corp. Video tape recorder. 207,203, 3–21–67, Cl. D26—14.
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Federighi, George J. Combined drinking glass chiller and mounting bracket therefor. 208,365, 8–22–67, Cl. D44—29.
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Felske, Arthur M., to General Electric Co. Food cooker or similar article. 207,861, 6–6–67, Cl. D44—1.
Fenne, Kenneth R., to Motorola, Inc. Phonograph pickup cartridge. 206,909, 2–7–67, Cl. D56—4.
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Ferm, Carl W. Sewage septic tank. 207,294, 3–28–67, Cl. D91—1.
Fernandez, Rubin G. Folding dust pan. 207,112, 3–7–67, Cl. D44—18.
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Ferry, Chamberlain, to Electric Soldering Iron Co., Inc. Soldering iron tip cleaner. 208,399, 8–29–67, Cl. D9—6.
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Fesenmaier, Raymond J., to The Pillsbury Co. Jar or the like. 207,355, 4–4–67, Cl. D58—25.
Feuerer, William A. Holster for hammers and the like. 208,289, 8–15–67, Cl. D2—400.
Fiegel, Victor G. Screw cap opener. 208,875, 10–10–67, Cl. D44—29.
Field, Eddy D., II. Man-like model to aid in teaching the martial art of karate. 208,057, 7–11–67, Cl. D34—4.
Field, Thomas R., to Jenn-Air Corp. Cooking surface and ventilator combination. 207,369, 4–4–67, Cl. D81—25.
Fields, Marvin J., to Quality Importers, Inc. Pitcher. 207,236, 3–21–67, Cl. D44—21.
Fiely, Frances H. Bracelet. 206,896, 2–7–67, Cl. D45—4.
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Ostrander, Robert K., Jr. 208,096.
Ostrander, Robert K., Jr. 209,460.
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Fitzgibbon, Richard D. Stringed musical instrument. 207,877, 6–6–67, Cl. D56—1.
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Flanders, Norman P., D. J. T. Hamm, and V. P. Romeo, to United Shoe Machinery Corp. Machine for mounting a component conveyor and processing unit for use in electronic assembling. 207,459, 4–18–67, Cl. D55—1.
Flashman, Joseph J. Bottle display stand. 208,228, 8–1–67, Cl. D80—9.
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Flenner, Thomas C., to The National Cash Register Co. Expansion pliers or similar article. 206,679, 1–10–67, Cl. D54—13.
Fletcher, Milton. High tensity lamp. 206,952, 2–14–67, Cl. D48—20.
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Flint's Inc.: *See*—
Smith, James D., and Flint. 208,849.
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Fossella, Gregory F., R. G. Palmer, and T. R. Salvo, to Keystone Mfg. Corp. Motion picture projector. 209,717, 12–26–67, Cl. D61—1.
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Fountain, Alec W., deceased (by M. Fountain, executrix), and D. G. Morgan, to United Kingdom Atomic Energy Authority. Respirator. 208,077, 7–11–67, Cl. 83—1.
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Foxell, Jack S., to The British Oxygen Co. Ltd. Heating and welding torch. 206,834, 1–31–67, Cl. D62—2.
Fralick, Richard C. Boom lamp. 207,734, 5–23–67, Cl. D48—20.
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Fraser, Robert F., to Walton Laboratories, Inc. Duct supported humidifier. 207,753, 5–23–67, Cl. D62—4.
Fraser, Robert G. Storage and dispenser cabinet for butter pats. 206,818, 1–31–67, Cl. D52—2.
Frasier, Jordan D., to International Rectifier Corp. Multiple electrode structure for cardiac tests or the like. 206,799, 1–31–67, Cl. D26—1.
Fratzscher, Kurt, to Patterson International Corp. Mounted game piece for a game board. 208,480, 9–5–67, Cl. D34—5.
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Freed, Leonard N., to Cities Service Oil Co. Console gasoline dispensing unit. 207,968, 6–20–67, Cl. D52—2.
Freeman, Claude C., and R. M. Ferguson, to Container Corp. of America. Christmas ornament or the like. 208,409, 8–29–67, Cl. D29—1.
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Funk, Clara S. Holder for knitting needles and accessories. 208,087, 7–18–67, Cl. D3—19.
Funk, Russell A. Bracelet. 207,337, 4–4–67, Cl. D45—4.
Fusco, Frank, N. C. and W. Gold, to Louis Marx & Co., Inc. Musical toy. 209,152, 11–7–67, Cl. D34—15.
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Gaglinano, Michael A. Hair color processing apparatus. 209,646, 12–19–67, Cl. D86—10.
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Gandelman, Jeff D. Table lighter. 207,662, 5–16–67, Cl. D48—27.
Gandelman, Jeff D. Table lighter. 207,663, 5–16–67, Cl. D48—27.
Gandelman, Jeff D. Table lighter. 207,664, 5–16–67, Cl. D48—27.
Ganger, Harry. Golf-putting-equipment cart. 207,577, 5–9–67, Cl. D14—3.
Gantz, Carroll M., to The Hoover Co. Casing for a suction cleaner or similar article. 209,189, 11–14–67, Cl. D9—2.
Gantz, Carroll M., and R. H. Hose, to The Hoover Co. Suction cleaner. 207,443, 4–18–67, Cl. D9—2.
Gardella, John M., and R. Vetere, to The S. S. White Dental Mfg. Co. Dental chair or similar article. 206,585, 1–3–67, Cl. D15—3.
Gardella, John M., and R. Vetere, to The S. S. White Dental Mfg. Co. Seat and leg rest for dental chair or similar article. 206,937, 2–14–67, Cl. D15—3.
Gardella, John M., and R. Vetere, to S. S. White Co. Back rest for dental chair or similar article. 207,003, 2–21–67, Cl. D15—3.
Gardiner, George H. Golf tee. 207,171, 3–14,67, Cl. D34—5.
Gardner, Frank H. Urinal duct. 206,779, 1–24–67, Cl. D83—1.
Gardner, Henrietta T. Combined candle and stand. 207,413, 4–11–67, Cl. D48—2.
Gardner, James A., and E. J. Westcott, to The Budd Co. Transit car. 207,889, 6–6–67, Cl. D66—1.
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Gare, Morris R. Aquarium filter. 208,137, 7–18–67, Cl. D91—1.
Gare, Morris R. Aquarium filter housing. 208,237, 8–1–67, Cl. D91—1.
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Garis, Gordon O., and R. F. Roettger, to Raygo, Inc. Soil compactor. 207,532, 5–2–67, Cl. D14—3.
Garland, Thomas N. Collector funnel for use in taking female urine specimens. 208,609, 9–12–67, Cl. D83—1.
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Gauvin, Charles A. Body of a stringed musical instrument. 208,432, 8–29–67, Cl. D56—1.
Gauvin, Charles A. Body of a stringed musical instrument. 208,433, 8–29–67, Cl. D56—1.
Gauvin, Charles A. Body of a stringed musical instrument. 208,434, 8–29–67, Cl. D56—1.
Gauvin, Charles A. Body of a stringed musical instrument. 208,435, 8–29–67, Cl. D56—1.
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Gauvin, Charles A. Body of a stringed musical instrument. 208,497, 9–5–67, Cl. D56—1.
Gauvin, Charles A. Body of a stringed musical instrument. 208,498, 9–5–67, Cl. D56—1.
Gauvin, Charles A. Body of a stringed musical instrument. 208,499, 9–5–67, Cl. D56—1.
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Gauvin, Charles A. Combined peg head, neck and finger board of a guitar or similar article. 209,707, 12–26–67, Cl. D56—1.
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Gaylor, Robert B., Jr., to Symington Wayne Corp. Casing for receipt printer for a gasoline dispenser. 208,813, 10–3–67, Cl. D52—2.
Gehl, James H., and R. J. Stockman, to Union Carbide Corp. Case for beverage containers. 208,331, 8–15–67, Cl. D58—5.
Gehrie, Charles S., to Presto Lock Co., Inc. Buckle lock for luggage. 208,812, 10–3–67, Cl. D50—7.
Gehrie, Charles S., to Presto Lock Co., Inc. Buckle locks for luggage or the like. 208,943, 10–17–67, Cl. D50—7.
Gehrie, Charles S., to Presto Lock Co., Inc. Combination lock. 209,083, 10–31–67, Cl. D50—7.
Gehrie, Charles S., to Presto Lock Co., Inc. Luggage lock or similar article. 209,322, 11–21–67, D50—7.
Geib, Robert L., to Dahlberg Electronics, Inc. Hearing aid. 207,205. 3–21–67, Cl. D26—14.
Geib, Robert L., to Dahlberg Electronics, Inc. Hearing aid. 207,206, 3–21–67, Cl. D26—14.
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Hakim, Albert S. Poker chip. 209,216, 11–14–67, Cl. D34—5.
Halberstadt, Lewis J., to Pro-Phy-Lac-Tic Brush Co. Shoe dauber. 206,792, 1–31–67, Cl. D9—2.
Hale, Thomas K., to Dispensers, Inc. Condiment caddy. 206,945, 2–14–67, Cl. D44—7.
Haley, Dwight L., to Ferro Corp. Combined reflective highway lane divider and road marker. 207,038, 2–21–67, Cl. D72—1.
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Halibrand, Henry T. Racing wheel. 208,543, 9–12–67, Cl. D14—30.
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Hampell, Herbert J., and M. I. Ross, to The Ross Mfg. Co. Knob. 209,591, 12–19–67, Cl. D26—13.

Hamrick, James C., to Jet Lines Products, Inc. Wall installable vacuum cleaner unit. 207,773, 5–30–67, Cl. D9—2.
Hanley, Harry W. Dial indicator. 207,022, 2–21–67, Cl. D52—6.
Hanlon, Donald V., and J. M. Kilpatrick, to Container Corporation of America. Pull tab for tear strip opener. 208,592, 9–12–67, Cl. D58—26.
Hanna, Michael J., and F. A. Maljan, to Malmik Enterprises. Set of chess pieces. 207,323, 4–4–67, Cl. D34—5.
Hanrahan, Norman T. Cable clamp. 209,702, 12–26–67, Cl. 54—1.
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Deal, Roger L., and Hansen. 209,056.
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Hartwell, Donald S. Combined flashlight and compact. 209,365, 11–21–67, Cl. D86—10.
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Harum, James D. Cat house. 209,042, 10–31–67, Cl. D12—2.
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Lahti, Aarre A., to American Safety Equipment Corp. of Michigan. Motorcycle saddlebag. 209,185, 11–7–67, Cl. D90—3.
Lahti, Aleksis, to American Safety Equipment Corp. of Michigan. Motorcycle luggage rack. 208,895, 10–10–67, Cl. D90—3.
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Lallone, Ronald L., 33⅓ to M. J. Coben, W. L. Cooper, and F. W. Zilaff. Combination soap, detergent and miscellaneous cleanser dispenser. 206,788, 1–31–67, Cl. D4—3.
Lally, James J. Supporting assembly for an abdominal retractor blade. 208,231, 8–1–67, Cl. D83—12.
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Landsman, Allan. Window frame. 207,949, 6–20–67, Cl. D13—1.
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Klein, Bert J., Bus, and Thorn. 207,013.
Lane, John, and A. C. Schneider, to Kecler & Dunkel, Inc. Design for combined toy building and container box. 209,412, 11–28–67, Cl. D34—15.
Lang, Anton. Combined container, dispenser, and tray for soap. 208,671, 9–19–67, Cl. D58—12.6.
Lang, Sidney, to Loral Corp. Hinged box or similar article. 208,039, 7–4–67, Cl. D58—12.6.
Lang, William A., to Monsanto Co. Direct readout test and measurement instrument. 208,193, 8–1–67, Cl. D26—1.
Langewis, Cornelis, and H. G. Hendrickson, to Kaiser Aluminum & Chemical Corp. Combined merchandising and dispensing container. 209,103, 10–31–67, Cl. D58—11.
Langford, Eulgha M. Nut tray. 207,176, 3–14–67, Cl. D44—10.
Langlie, Howard, and A. T. Berg, Jr., to North Central Plastics, Inc., Electric fence tester. 209,698, 12–26–67, Cl. D52—1.
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Lanier Electronics Laboratory: *See*—
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Larkins, Daniel C. Combined tissue dispenser and litter container for automobiles. 207,071, 2–28–67, Cl. D58—12.6.
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Jones, Paul R., and Larsen. 209,375.
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Larson, Merlyn O., to Nyirem Enterprises Inc. Hair styling tool. 209,181, 11–7–67, Cl. D86—8.
Lasher, Delmar J., and D. C. Roller, to International Business Machines Corp. Combined spool of typewriter ribbon and package therefor or similar article. 208,173, 7–25–67, Cl. D58—11.
Latham, Richard S., to American Home Products Corp. Spoon or the like. 207,023, 2–21–67, Cl. D54—12.
Latham, Richard S., to American Home Products Corp. Turner or the like. 207,114, 3–7–67, Cl. D44—29.
Latham, Richard S., to American Home Products, Corp. Vegetable masher. 207,195, 3–14–67, Cl. D89—1.
Latham, Richard S., to American Home Products Corp. Knife or the like. 207,441, 4–11–67, Cl. D95—3.
Latzko, Andrew. Statuette or the like. 209,061, 10–31–67, Cl. D29—23.
Lauer, Darrel A., to Ampex Corp. Portable de-magnetizer. 209,205, 11–14–67, Cl. D26—1.
Laughlin, Clayton A. Serving fork or the like. 207,183, 3–14–67, Cl. D54—12.
Laughlin, Clayton A., to Arthur Salm Inc. Frozen food cutter. 207,386, 4–4–67 Cl. D95—3.
Laughlin, Clayton A., to Arthur Salm, Inc. Lazy susan or the like. 207,409, 4–11–67, Cl. D44—10.
Laughlin, Clayton A., to Honeywell Inc. Space condition responsive instrument. 209,233, 11–14–67, Cl. D52—7.
Laughlin, Clayton A., to Honeywell Inc. Space condition responsive instrument. 209,234, 11–14–67, Cl. D52—7.
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Laurini, Zane P., to Frank Hollister Co., Inc. Drape anchor for prestressed concrete. 207,870, 6–6–67, Cl. D51—1.
Laurini, Zane P., to Frank Hollister Co., Inc. Girder anchor insert for prestressed concrete. 207,871, 6–6–67, Cl. D51—1.
Laurini, Zane P., to Frank Hollister Co., Inc. Roller drape anchor for prestressed concrete. 207,872, 6–6–67, Cl. D51—1.
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Laylon, Harry L., to Sunbeam Corp. Clock. 208,795, 10–3–67, Cl. D42—7.
Laylon, Harry L., to Sunbeam Corp. Clock. 208,800, 10–3–67, Cl. D42—7.
Laylon, Harry L., to Sunbeam Corp. Clock. 208,802, 10–3–67, Cl. D42—7.
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Lea, Melvin A., to Oneida Ltd. Spoon or similar article. 208,724, 9–26–67, Cl. D54—12.
Lea, Melvin A., to Oneida Ltd. Spoon or similar article of flatware. 209,015, 10–24–67, Cl. D54—12.
Leach, Robert L., and J. H. Lanahan, to The Bendix Corp. Coordinate measuring machine. 207,026, 2–21–67, Cl. D55—1.
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Stoy, Raymond P. 208,519.
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Le Sueur, Robert C., R. W. Guttenberg, and M. H. Polhemus, to Scovill Mfg. Co. Blender. 209,493, 12–5–67, Cl. D89—1.
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Baker, Jack F. 206,994.
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Levin, Monte, to Empire Brushes, Inc. Power-operated vibrating hair brush. 206,573, 1–3–67, Cl. D9—2.
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Levin, Myron M. Food mold. 209,157, 11–7–67, Cl. D44—1.
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Levy, Edward D., R. W. Weeden, and E. M. Muller, to Union Carbide Corp. Upholstered high chair. 208,152, 7–25–67, Cl. D15—1.
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Lind, Clifford W. Pet clean-up rake. 209,660, 12–26–67, Cl. D9—2.
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Lindsey, L. E. Conductor clamp. 209,667, 12–26–67, Cl. D26—1.
Lindsey, L. E. Conductor clamp. 209,668, 12–26–67, Cl. D26—1.
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Lindsey, Seth B., and J. H. Klancke, to Phillips Mfg. Co., Inc. Propane operated heater for water cooled engines or the like. 208,444, 8–29–67, Cl. D81—1.
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Linscheid, Edna M. Combination support and rest for an electric iron. 207,118, 3–7–67, Cl. D49—6.
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Lohr, Raymond J., to Louis Marx & Co., Inc. Toy steering wheel. 208,788, 10–3–67, Cl. D34—15.
Lokken, Rodney D., and C. H. Sorenson. Detachable weight box for the front end of tractors. 208,300, 8–15–67, Cl. D14—6.
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Knowles, Arthur N. 207,352.
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Long, Mary W.: *See*—
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Long, Roy D., deceased (by M. M. Long, executrix), to S. Lewis. Vehicle top. 208,151, 7–25–67, Cl. D14—27.
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Lorenzo, Albert M. Mial Mfg. Corp. Table lamp. 207,064, 2–28–67, Cl. D48—20.
Losserand, Paul. Spool for coloring threads. 208,316, 8–15–67, Cl. D41—1
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Lumina Electronics Co. Ltd.: *See*—
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Deskey, Donald, and Lurkis. 207,665.
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Lurski, Robert B., to Club Aluminum Products Co. Mixer blade. 208,062, 7–11–67, Cl. D44—1.
Lustbader, Samuel. Combined holder and extinguisher for a cigarette. 208,517, 9–5–67, Cl. D85—2.
Lutz, Gilbert F., to The Warner & Swasey Co. Combined tool base and cutter block for a lathe. 207,345, 4–4–67, Cl. D54—6.
Lutz, Gilbert F., to The Warner & Swasey Co. Tool holder. 207,346, 4–4–67, Cl. D54—13.
Lutz, Ronald H.: *See*—
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Lynk, Leo F., to Counting Systems, Inc. Combined menu selector and item totalizer or similar article. 208,782, 10–3–67, Cl. D26—5.
Lynn, Homer, to Harold Leonard & Co., Inc. Sandwick pick or the like. 207,245, 3–21–67, Cl. D86—10.
Lyon Metal Products, Inc.: *See*—
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Macalusa, Carroll J., and E. L. Schaper, to The Dow Chemical Co. Container for oil products or the like. 209,632, 12–19–67, Cl. D58—17
MacChesney, Chester M., and R. Winkler, to Ellamac Inc. Combined clock, calendar and cabinet for eyeglasses. 209,156, 11–7–67, Cl. D42—7.
Machos, Jack C. Golf putter head. 208,313, 8–15–67, Cl. D34—5.
Mackay, Frederick G., A. B. Johnson, and J. W. Mattingly, to Aqua-Tec Corp. Rack for dental hygiene appliances or the like. 208,776, 10–3–67, Cl. D24—1.
Macker, John A., and E. S. Bewley, to Burroughs Corp. Computer operator console. 209,508, 12–12–67, Cl. D26—5.
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Melamed, Henry B., and J. F. Cullen. Bottle. 209,542, 12-12-67, Cl. D58—8.
Melamed, Henry B., and J. F. Cullen. Bottle. 209,543, 12-12-67, Cl. D58—8.
Mellyn, Lawrence P., to General Electric Co. Light diffuser. 207,500, 4-25-67, Cl. D48—20.
Mellyn, Lawrence P., to General Electric Co. Integrally hinged weatherproof receptacle cover. 208,917, 10-17-67, Cl. D26—13.
Mellyn, Lawrence P., to General Electric Co. Light diffuser for a night light. 208,939, 10-17-67, Cl. D48—20.
Melrose, Denis G., to National Research Development Corp. Heart valve. 209,363, 11-21-67, Cl. D83—1.
Melzer, Herman M. Air curtain. 208,677, 9-19-67, Cl. D62—4.
Metcalf, Claude K., to Y. D. McGilly. Boat. 207,283, 3-28-67, Cl. D71—1.
Metlox Mfg. Co.: *See*—
Allen, Robert Y., M. and E. K. Shaw. 206,891.
Allen, Robert Y., M. and E. K. Shaw. 206,892.
Allen, Robert Y., M. and E. K. Shaw. 206,893.
Allen, Robert Y., M. and E. K. Shaw. 206,894.
Allen, Robert Y., M. and E. K. Shaw. 206,895.
Metzler, Charles L., and H. A. Holzwarth, to Visirecord Inc. Record-keeping cabinet. 208,479, 9-5-67, Cl. D33—19.
Metzler, Charles L., and H. A. Holzwarth, to American Can Co. Cup or similar article. 209,426, 11-28-67, Cl. D58—17.
Meyer, Alvin C., to The Gold Buffet Franchise, Inc. Combination serving table and hood. 208,178, 7-25-67, Cl. D81—10.
Meyer, Carl R. Shade umbrella. 209,648, 12-19-67, Cl. D88—3.
Meyer, Carl R. Shade umbrella. 209,649, 12-19-67, Cl. D88—3.
Meyer, Carl R. Shade umbrella. 209,650, 12-19-67, Cl. D88—3.
Meyer, Carl R. Shade umbrella. 209,651, 12-19-67, Cl. D88—3.
Meyer, Charles, Jr., to Chefcraft Associates. Food service tray. 208,260, 8-8-67, Cl. D44—10.
Meyer, Christian, to L. Holler. Toy blowpipe. 207,717, 5-23-67, Cl. D34—15.
Meyer, Edward P., and W. L. Wright, to Physionic Engineering, Inc. Combined adjustable support and ultrasonic transducer holder for diagnostic scanners. 209,180, 11-7-67, Cl. D83—1.
Meyer, Frank E.: *See*—
Meyer, Frank E., and Saucier. 209,090.
Meyer, Frank E., and L. H. Saucier, to F. E. Meyer. Box end folding and stapling machine. 209,090, 10-31-67, Cl. D55—1.
Meyer, Henry G. Inflatable tourniquet. 208,124, 7-18-67, Cl. D83—1.
Meyer, Peter H.: *See*—
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Meyers, Willard F., to Owens-Illinois, Inc. Bottle. 207,188, 3-14-67, Cl. D58—8.
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Michaeli, Avraham. Roll-out base for refrigerators. 206,999, 2-21-67, Cl. D14—3.
Michals, Theodore T. Child's stool or the like. 207,708. 5-23-67, Cl. D15—8.
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Mid-American Iron and Steel Corp.: *See*—
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Middleton, Robert E. Contact lens measuring instrument. 207,241, 3-21-67, Cl. D57—1.
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Miki, Tadashi, to Standard Radio Corp. Television receiver. 209,708, 12-26-67, Cl. D56—4.
Miles, Harry E., Jr. Machine tool base and bed unit. 206,617, 1-3-67, Cl. D55—1.
Miles, Harry E., Jr. Machine tool base and bed unit. 206,618, 1-3-67, Cl. D55—1.
Miles, Harry E., Jr. Machine tool base and bed unit. 206,619, 1-3-67, Cl. D55—1.
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Collister, Kenneth D., Patteson, and Thorson. 208,907.
Miles, Robert F., to MS Industries, Inc. Stacking and nesting bakery tray. 207,883, 6-6-67, Cl. D58—12.6.
Miley, David W.: *See*—
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Danz, Ellworth R., Preiser, and Miley. 207,421.
Militello, James V., to American Allsafe Co. Fan guard. 209,249, 11-14-67, Cl. D62—4.

Miller, Alfred N., to Jacques Kreisler Mfg. Corp. Box. 207,884, 6-6-67, Cl. D58—12.6.
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Miller, Eldon S. Automatic beverage dispenser cabinet. 207,082, 2-28-67, Cl. D94—3.
Miller, Harvey R. Convertible aeroplane and automobile. 207,929, 6-13-67, Cl. D71—1.
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Miller, Howard E. Traffic signal. 208,381, 8-22-67, Cl. D72—1.
Miller, Howard S., Jr., to Dispensers, Inc. Pitcher or similar article. 207,787, 5-30-67, Cl. D44—21.
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Miller, Robert F. Auxiliary fuel tank for vehicles. 208,539, 9-12-67, Cl. D14—3.
Miller, Ronald C., to Honeywell Inc. Face panel for a control instrument. 208,944, 10-17-67, Cl. D52—6.
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Moll, Jack E. 208,535.
Miller, Wayne R.: *See*—
Cole, Glen E., and Miller. 209,533.
Miller, William P., II, B. R. De Young, and T. E. Dow. Tire. 207,439, 4-11-67, Cl. D90—20.
Mills, Anthony M., to Dunlop Rubber Co., Ltd. Tire. 209,265, 11-14-67, Cl. D90—20.
Mimeur, Robert, to Carpano & Pons. Fishing reel. 208,910, 10-17-67, Cl. D22—25.
Miner, Earl L., to Humboldt Industries, Inc. Vehicle. 207,704, 5-23-67, Cl. D14—3.
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Dykes, Ralph E., and Mitchell. 209,337.
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Mizutani, Takesi, to Kanamaru Shoten, Ltd. Cigarette lighter. 208,371, 8-22-67, Cl. D48—27.
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Moll, Jack E., to Miller Tilt-Top Trailer, Inc. Trailer hitch. 208,535, 9-12-67, Cl. D14—3.
Moll, James W. Toothbrush. 207,303, 4-4-67, Cl. D9—2.
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Hills, David G. 209,626.
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Moore, Lawrence A., and E. J. Klaczkiewicz, to Beloit Corp. Shoe brake drum for paper rolls or the like. 208,495, 9-5-67, Cl. D55—1.
Moore, Robert D., to Carnation Co. Plastic pail. 208,276, 8-8-67, Cl. D58—17.
Moore, Robert W., to Chicago Aerial Industries, Inc. Camera. 209,637, 12-19-67, Cl. D61—1.
Moore, Walter E., to General Electric Co. Flashlight or similar article. 208,940, 10-17-67, Cl. D48—24.
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Moranduzzo, Dario. Christmas tree ornament. 206,882, 2-7-67, Cl. D29—1.
Moranduzzo, Dario. Christmas tree ornament. 206,883, 2-7-67, Cl. D29—1.
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Morawski, London T., ⅓ to John J. Parker. Spline indicator gage. 207,793, 5-30-67, Cl. D52—6.
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Morgan, John R., to Amerock Corp. Backing plate. 207,529, 5-2-67, Cl. D10—8.
Morgan, John R., to Amerock Corp. Applique type panel for cabinet doors or the like. 208,091, 7-18-67, Cl. D13—1.
Morgan, John R., to Amerock Corp. Pull. 208,146, 7-25-67, Cl. D10—8.
Morgan, John R., to Amerock Corp. Pull. 208,148, 7-25-67, Cl. D10—8.
Morgan, John R., to Amerock Corp. Back plate. 208,160, 7-25-67, Cl. D50—6.
Morgan, John R., to Amerock Corp. Molding for cabinets or the like. 208,401, 8-29-67, Cl. D13—6.
Morgan, John R., to Amerock (Corp.). Applique type panel for cabinet doors or the like. 208,461, 9-5-67, Cl. D13—1.
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Morgan, John R., to Amerock Corp. Combined pull and escutcheon plate. 208,690, 9-26-67, Cl. D10—8.
Morgan, John R., to Amerock Corp. Pull. 208,691, 9-26-67, Cl. D10—8.
Morgan, John R., to Amerock Corp. Applique type panel for cabinet doors or the like. 208,692, 9-26-67, Cl. D13—1.
Morgan, John R., to Amerock Corp. Back plate. 208,721, 9-26-67, D50—6.
Morgan, John R., to Amerock Corp. Pull. 209,386, 11-28-67, Cl. D10—8.
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Mulder, Lambert J., to Thomasville Furniture Industries, Inc. Dresser. 208,029, 7–4–67, Cl. D33—6.
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Ryan, John W., and C. F. Adickes, Jr., to Mattel, Inc. Combined game board and suitcase-type container. 207,714, 5–23–67, Cl. D34—5.
Ryan, John W., and C. F. Adickes, Jr., to Mattel, Inc. Combined game board and suitcase-type container. 207,715, 5–23–67, Cl. D34—5.
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Smith, Thomas R., to The Maytag Co. Washing machine agitator. 209,009, 10–24–67, Cl. D49—1.
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Standard, Louis G. Stereo tape cartridge holder for car visor. 208,253, 8–8–67, Cl. D14—6.
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Valles, Benjamin V., to Litton Precision Products, Inc. Combined electron discharge device and fittings therefor. 208,861, 10–10–67, Cl. D26—8.

Valles, Benjamin V., to Litton Precision Products, Inc. Electron discharge device. 208,862, 10–10–67, Cl. D26—8.

Vallis, Joseph, to Valden Co. Combined brush and comb. 207,050, 2–28–67, Cl. D9—2.

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Van, Agnes. Musical rhythm instrument. 207,605, 5–9–67, Cl. D56—1.

Van Acker, John J., to Addressograph-Multigraph Corp. Reproduction apparatus. 208,336, 8–15–67, Cl. D61—1.

Van Acker, John J., to Varityper Corp. Film cartridge. 208,736, 9–26–67, Cl. D61—1.

Van Den Berg, Richard H., to Dimensional Products, Inc. Plaque. 206,754, 1–24–67, Cl. D29—23.

Van Den Berg, Richard H., to Dimensional Products, Inc. Paperweight. 206,776, 1–24–67, Cl. D74—12.

Van Den Houten, Raymond F., and A. R. Akelewicz, to Creative Associates of Albany, Ltd. Crane hook. 209,155, 11–7–67, Cl. D41—1.

Vanderhyde, Harold J., to The Procter & Gamble Co. Bottle. 209,099, 10–31–67, Cl. D58—6.

Vanderhyde, Harold J., to The Procter & Gamble Co. Bottle. 209,627, 12–19–67, Cl. D58—6.

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Van Meter, Warren C. Multiple unit bread baking pan. 207,406, 4–11–67, Cl. D44—1.

Van Ostrand, Herbert P., to Vomar Products, Inc. Desk plaque. 208,453, 9–5–67, Cl. D1—12.

Van Riper, William A. Bunk crib. 209,570, 12–19–67, Cl. D5—5.

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Versteeg, James H., and L. H. Peters, to Union Carbide Corp. Case for beverage containers. 209,473, 12–5–67, Cl. D58—5.

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Vidal, Eugene L., to Phillips Petroleum Co. Bottle carrier or similar article. 208,111 7–18–67, Cl. D58—5.

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Vuillemenot, Robert P., and T. B. Aldrich, to The Procter & Gamble Co. Dispenser cap for a pressurized container. 208,886, 10–10–67, Cl. D58—26.
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Wagner, Harold O., and M. S. Ziskin, to American Trading and Production Corp. Canister or similar article. 207,658, 5–16–67, Cl. D44—6.
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Wagner, William A., and D. F. Kaminski, to Warwick Electronics Inc. Portable record changer or similar article. 209,709, 12–26–67, Cl. D56—4.
Wah, Joe M., and T. A. Johnson. Building. 209,575, 12–19–67, Cl. D13—1.
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Waine, Peter, to Fairey Engineering Ltd. Radiotherapy simulator unit for diagnostic and therapy planning purposes. 208,284, 8–8–67, Cl. D83—1.
Waine, Peter, to Fairey Engineering Ltd. Oxygen chamber for medical use. 208,744, 9–26–67, Cl. D83—1.
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Weiss, Irene and H. M. Combined bar and electric model car race track. 207,911, 6–13–67, Cl. D34—5.
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Spaulding, Joseph H., Cobb, and Rodmaker. 207,551.
Whitman, Ona L., to Viber Co. Portable motor for concrete vibrators. 207,505, 4–25–67, Cl. D54—14.
Whitman, Shepard H., to Master Bronze Powder Co., Inc. Display rack. 207,565, 5–2–67, Cl. D80—9.
Whittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 208,449, 8–29–67, Cl. D90—20.
Wickett, Byron H., to Don Baxter, Inc. Squeezable coupling for medical liquid administration set. 207,635, 5–16–67, Cl. D16—1.
Wiegratz, Fred G.: *See*—
Clever, John C., Baron, and Wiegratz. 207,615.
Wiener, Edward R., to International Business Machines Corp. Housing for electronic apparatus. 206,802, 1–31–67, Cl. D26—5.
Wiener, Edward R., to International Business Machines Corp. Imprinter. 207,073, 2–28–67, Cl. D64—11.
Wiinblad, Bjorn, to Rosenthal Aktiengesellschaft. Vegetable dish. 209,414, 11–28–67, Cl. D44—15.
Wilckens, Wolfgang E., to Heinemann Electric Co. Handle for a circuit breaker or the like. 209,592, 12–19–67, Cl. D26—13.
Wilcox, Francis J., Jr.: *See*—
Hueber, Joseph A. and E. K., and Wilcox. 208,166.
Wildgen, Leo F., to Arthur Salm, Inc. Appetizer scoop or the like. 207,410, 4–11–67, Cl. D44—29.
Wildgren, Leo F., to Honeywell Inc. Space condition responsive instrument. 207,669, 5–16–67, Cl. D52—7.
Wilkens, Howard J., to Brunswick Corp. Golf bag. 208,985, 10–24–67, Cl. D34—5.
Wilkinson, Clarence T.: *See*—
Moody, Willard J., Wilkinson, and Walker. 206,595.
Wilkinson, Donald E.: *See*—
Fanslow, Ronald J., Wilkinson, and Dell. 209,193.
Wilkinson, Judkins E., to Atlanta Stove Works, Inc. Outdoor cooker. 206,738, 1–17–67, Cl. D81—10.
Wilkinson, Judkins E., to Atlanta Stove Works, Inc. Stove. 208,891, 10–10–67, Cl. D81—19.
Wilkinson, Judkins E., and D. K. Walz, to Atlanta Stove Works, Inc. Heater cabinet. 208,606, 9–12–67, Cl. D81—19.
Wilkinson Sword Ltd.: *See*—
Rogers, Edward A. 206,588.
Rogers, Edward A. 208,562.
Williams, Bailey C. Lock cover or the like. 209,082, 10–31–67, Cl. D50—7.
Williams, Charlie R. Combination walking aid and invalid supporter. 208,607, 9–12–67, Cl. D83—1.
Williams Furnace Co.: *See*—
Bedell, Karl L. 207,561.
Williams Gold Refining Co. Inc.: *See*—
Faller, Robert O. 208,779.
Williams, Herbert F. Gasket removal tool. 207,184, 3–14–67. Cl. D54—13.
Williams, Ruby B. Wall-mounted rack for supporting baseball equipment. 209,682, 12–26–67, Cl. D33—3.
Williams, William D., to Lehn & Fink Products Corp. Combined cap, pouring spout and captive closure for a bottle or the like. 206,971, 2–14–67, Cl. D58—26.
Williams, William L. Potter's wheel. 206,902, 2–7–67, Cl. D55—1.
Williamson, John G.: *See*—
Shaw, Harmon L., and Williamson. 207,297.
Willis, Frank M., to E. I. du Pont de Nemours and Co. Rivet gun or similar fastening tool. 207,876, 6–6–67, Cl. D54—14.
Wilson Athletic Goods Mfg. Co.: *See*—
Bates, Richard E., and Javor. 207,085.
Bates, Richard E., and Javor. 207,086.
Bates, Richard E., and Javor. 207,087.
Bates, Richard E., and Javor. 207,088.
Bates, Richard E., and Javor. 207,089.
Wilson, Cleon V.: *See*—
Curtiss, Arthur J., and Wilson. 206,633.
Wilson, James D., to Banner Metals, Inc. Receptacle for foodstuffs. 207,680, 5–16–67, Cl. D58—12.6.
Wilson, Norman E., to The Puro Co., Inc. Deodorant holder. 208,023, 7–4–67, Cl. D16—2.
Wilson, Rex C., to Muntz Stereo-Pak, Inc. Control panel for a multi-track tape deck. 208,701, 9–26–67, Cl. 26—14.
Wilson, Robert G. Oven. 206,700, 1–10–67, Cl. D81—10.
Wilson, Robert G. Food display warmer. 206,701, 1–10–67, Cl. 81—10.
Wilson, Robert G. Oven. 208,177, 7–25–67, Cl. D81—10.
Wilson, Robert G. Display cooker. 208,742, 9–26–67. Cl. D81—10.
Wilson, William W. Ripper tooth. 207,448, 4–18–67, Cl. D39—1.
Wilson, William W. Digger tooth unit. 207,449, 4–18–67, Cl. D39—1.
Wilson, William W. Support adapter for a digger tooth. 207,450, 4–18–67, Cl. D39—1.
Wilson, William W. Digger tooth. 207,451, 4–18–67, Cl. D39—1.
Wince, Vearl S., to Holophane Co., Inc. Incandescent luminaire refractor. 206,609, 1–3–67, Cl. 48—16.
Wince, Vearl S., to Holophane Co., Inc. Luminaire refractor. 207,596, 5–9–67, Cl. D48—16.
Wince, Vearl S., to Holophane Co., Inc. Luminaire lens. 208,938, 10–17–67, Cl. D48—16.
Winkel, Jan, and C. Van der Lely, to C. Van der Lely, N. V. Side delivery rake. 206,604, 1–3–67, Cl. D35—2.
Winkler, Richard: *See*—
MacChesney, Chester M., and Winkler. 209,156.
Winston, Eric, to Jerrold Electronic Corp. Outdoor high frequency amplifier case or the like. 208,983, 10–24–67, Cl. D26—14.
Winters, Everett R. Eyeglass holder. 207,277, 3–28–67, Cl. D57—1.
Winton, Lavoy. Passenger vehicle for amusement devices. 207,648, 5–16–67, Cl. D34—5.
Winton, William A. Radio. 208,164, 7–25–67, Cl. D56—4.
Wirth, Lilliam B. Surgical pillow. 207,079, 2–28–67, Cl. D83—1.
Wise, Cecil S. Fiber processing cabinet. 206,681, 1–10–67, Cl. D55—1.
Wister, Robert B. Motor boat. 208,441, 8–29–67, Cl. D71—1.
Witcher, Melvin H. Finger ring. 207,864, 6–6–67, Cl. D45—10.
Witco Chemical Co., Inc.: *See*—
Cunningham, James E. 207,678.
Witt Co., The: *See*—
Brookshire, Phillip L. 208,589.
Wittenberg, Jerome S. Illuminable note pad holder or the like. 209,548, 12–12–67, Cl. D74—9.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 206,645, 1–3–67, Cl. D90—20.
Wittenmyer, Glen L. Tire. 206,742, 1–17–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,150, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,151, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,153, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,154, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,155, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,156, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,157, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,158, 3–7–67, Cl. 90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,159, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,160, 3–7–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 207,620, 5–9–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 208,129, 7–18–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodyear Co. Tire. 208,130, 7–18–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 208,131, 7–18–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 208,132, 7–18–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 208,133, 7–18–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 208,347, 8–15–67, Cl. D90—20.
Wittenmyer, Glen L., to The B. F. Goodrich Co. Tire. 208,844, 10–3–67, Cl. D90—20.
Woerner, Joseph F. Automatic animal feeder. 208,020, 7–4–67, Cl. D12—2.
Wolf, Jesse D. Portable combined sound and picture reproducing apparatus. 206,833, 1–31–67, Cl. D61—1.
Wolf, Tobin: *See*—
Weston, Stanley A., and Wolf. 207,783.
Wolfson, Abraham M. Toothbrush holder. 209,275, 11–21–67, Cl. D9—2.
Wolske, Lawrence E., to Whirlpool Corp. Corner angle shower stall. 208,967, 10–24–67, Cl. D4—4.
Wolske, Lawrence E., to Whirlpool Corp. Shower stall. 208,968, 10–24–67, Cl. D4—4.
Womack, Hester W. Table lamp base. 208,422, 8–29–67, Cl. D48—20.
Wood, A. Bernie. Candy box. 208,112, 7–18–67, Cl. D58—12.
Wood, Donald H., D. L. Brodsky, R. N. James, and W. E. Roth, to International Business Machine Corp. 208,308, 8–15–67, Cl. D26—5.
Wood, Donald H., and D. A. Moore, to International Business Machines Corp. Remote control terminal. 208,475, 9–5–67. Cl. D26—13.
Wood-Metal Industries, Inc.: *See*—
Wall, Charles G. 208,908.
Wood, Walter E. Combined ash tray and cigarette snuffer. 208,344, 8–15–67, Cl. D85—2.
Woodard, Melvin J., to Holcomb & Hoke Mfg. Co., Inc. Track member for folding walls. 208,297, 8–15–67, Cl. D13—6.
Woodbridge Moulded Products Ltd.: *See*—
Hubbard, Walter G. 208,815.
Woodford, Robert C. Garment hanger. 207,932, 6–13–67, Cl. D80—8.
Workman, David E.: *See*—
Perkins, George D., and Workman. 207,552.
Wormley, Edward J., to Dunbar Furniture Corp. of Indiana. Table support. 207,647, 5–16–67, Cl. D33—14.
Wormser, Robert S., to Game-Time, Inc. Circus wagon playground climber. 208,361, 8–22–67, Cl. D34—5.

Wormser, Robert S., to Game-Time, Inc. Chicken-shaped seat for playground apparatus. 209,602, 12–19–67, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Duck-shaped seat for playground apparatus. 209,603, 12–19–67, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Ram-shaped seat for playground apparatus. 209,604, 12–19–67, Cl. D34—15.
Wormser, Robert S., to Game-Time, Inc. Lion-shaped seat for playground apparatus. 209,687, 12–26–67, Cl. D34—15.
Wright, Christopher B. Waste receptacle or similar article. 208,590, 9–12–67, Cl. D58—17.
Wright, Curtis M. Cable vibration damper or similar article. 207,317, 4–4–67, Cl. D26—1.
Wright, Jerry E., to Corning Glass Works. Cooking surface or the like. 209,115, 10–31–67, Cl. D81—25.
Wright, William L.: *See*—
Meyer, Edward P., and Wright. 209,180.
Wuerker, Charles A.: *See*—
Heth, Sherman C., Price, and Wuerker. 207,405.
Wyatt, Billy B., to Tra-Vel, Ltd. Travel information center building. 208,355, 8–22–67, Cl. D13—1.
Wymore, Max L. Automobile with rearwardly opening enclosed luggage carrier. 206,653, 1–10–67, Cl. D14—3.
Wyott Corp.: *See*—
Buday, Eugene. 207,893.
Xerox Corp.: *See*—
Britt, James E., Del Vecchio, and Stessel. 209,408.
Britt, James E., Del Vecchio, and Stessel. 209,409.
Eichorn, Roger H. 208,337.
Wagner, John W., and Dennis. 208,377.
Yamamoto, Daijiro, to Yehan Numata. Measuring instrument. 207,553, 5–2–67, Cl. D52—6.
Yamanaka, Izumi, to The National Cash Register Co. Cash register or similar article. 207,970, 6–20–67, Cl. D52—4.
Yamazaki, Masaru. Covered cooking pot. 209,000, 10–24–67. Cl. D44—1.
Yano, Hiroshi. Toy gun. 207,016, 2–21–67, Cl. D34—15.
Yavitch, Morris. Toilet paper holder. 209,271, 11–21–67, Cl. D4—3.
Yeagley, Dillon C. Detachable seat for a picnic bench or similar article. 209,281, 11–21–67, Cl. D15—8.
Yehan Numata: *See*—
Yamamoto, Daijiro. 207,553.
Yellott, John I. Solar radiation measuring device. 206,614, 1–3–67, Cl. D52—6.
Yellott, John I. Combined base plate and solar cell for a solar radiation measuring device. 208,104, 7–18–67, Cl. D52—6.
Yeske, Laurel R., to J. I. Case Co. Side delivery rake. 208,259, 8–8–67, Cl. D39—1.
Yetman Corp., The: *See*—
Yetman, David S. 207,289.
Yetman, David S., to The Yetman Corp. Motorcycle frame. 207,289, 3–28–67, Cl. D90—8.
Yokich, George A. Fishing lure. 206,808, 1–31–67, Cl. D31—4.
Yokich, George A. Clothes pole support. 208,493, 9–5–67, Cl. D54—1.
Yonkers, Robert A.: *See*—
Anderson, Howard A., and Yonkers. 208,997.
Yoshinaga, Masajiro. Gas lighter. 208,661, 9–19–67, Cl. D48—27.
Yoshinaga Prince Kabushiki Kaisha: *See*—
Yoshinaga, Sadao. 209,165.
Yoshinaga, Sadao, to Yoshinaga Prince Kabushiki Kaisha. Lighter. 209,165, 11–7–67, Cl. D48—27.
Yoshino, Zenzaburo, to Zenza Bronica Kogyo Kabushiki Kaisha. Cigarette lighter. 208,662, 9–19–67, Cl. D48—27.
Yoshino, Zenzaburo, to Zenza Bronica Kogyo Kabushiki Kaisha. Gas cigarette lighter. 209,617, 12–19–67, Cl. D48—27.
Young, John W., to Clarin Mfg. Co. Combined table and seating unit. 207,225, 3–21–67, Cl. D33—14.
Youngblood, Leonard C., to Uniroyal, Inc. Pneumatic tire. 209,376, 11–21–67, Cl. D90—20.
Yurdin, Carl, to Harman-Kardon, Inc. Combined phonograph and radio or similar article. 207,427, 4–11–67, Cl. D56—4.
Yurdin, Carl R., to Branson Instruments, Inc. Ultrasonic test instrument. 207,122, 3–7–67, Cl. D52—6.
Z & T Importing Co., Inc.: *See*—
Araki, Minoru. 208,324.
Zadek, Arthur. Ball toy. 209,303, 11–21–67, Cl. D34—15.
Zadron, Emil, and A. S. Kenmonth, to Jet-Clean Co. Cleaning device for automobile engines and component or the like. 208,903, 10–17–67, Cl. D9—2.
Zandberg, Paul I., and C. F. Taylor. Volume measuring syringe for dental impression material. 207,533, 5–2–67. Cl. D24—1.
Zandberg, Paul I., and C. F. Taylor. Tooth brush. 209,574, 12–19–67, Cl. D9—2.
Zanuso, Marco, and R. Sapper, to Societé Italiana Telecomunicazioni Siemens S.p.A. Telephone set. 207,490, 4–25–67, Cl. D26—14.
Zanuso, Marco, and R. Sapper, to Societé Italiana Telecomunicazioni Siemens S.p.A. Telephone set. 207,491, 4–25–67, Cl. D26—14.
Zavitsanos, Sokratis I. Tuxedo coat. 209,565, 12–19–67, Cl. D2—187.
Zbikowski, Ted, and J. L. Marchello, to Joseph Buegeleisen Co. Motorcycle windshield. 206,644, 1–3–67, Cl. D90—1.
Zeilstra, Carol R.: *See*—
Zeilstra, Charles T. and C. R. 207,578.
Zeilstra, Charles T. and C. R. Hand cart. 207,578, 5–9–67, Cl. D14—3.
Zeller, Herbert J., to Motorola, Inc. Beer keg cooler. 208,959, 10–17–67, Cl. D67—3.
Zeller, John E. Portable rack for holding multiple rolls of sheet material. 208,207, 8–1–67, Cl. D52—2.
Zenith Radio Corp.: *See*—
Boldt, Melvin H. 207,536.
Boldt, Melvin H. 208,165.
Boldt, Melvin H. 208,194.
Zenza Bronica Kogyo Kabushiki Kaisha: *See*—
Yoshino, Zenzaburo. 208,662.
Yoshino, Zenzaburo. 209,617.
Zero Mfg. Co.: *See*—
La Barge, Louis P. 208,476.
Zern, Warren B., and C. H. Bode; said Bode assor. to said Zern. Slide fastener actuator. 207,628, 5–16–67, Cl. D2—415.
Zick, Ronald W., to Jamison, Inc. Rider seat for playground apparatus. 209,298, 11–21–67, Cl. D34—5.
Ziegelman, Norman H.: *See*—
Ziegelman, Robert L. and N. H. 206,840.
Ziegelman, Robert L. and N. H. Teller's counter. 206,840, 1–31–67, D80—2.
Zierhut, Clarence D., and J. H. Wasson, to Paper Mate Mfg. Co. Ball point pen. 206,636, 1–3–67, Cl. D74—17.
Zilaff, Francis W.: *See*—
Lallone, Ronald L. 206,788.
Zimmerman, Jay V. Tiered planter. 207,915, 6–13–67, Cl. D35—3.
Zimmon, Harold. Disposable protective shoe cover. 209,036, 10–31–67, Cl. D2—271.
Zip-Up Lighting Tower Co., Inc.: *See*—
Partlow, Jackson A. 208,106.
Ziskin, Manuel S.: *See*—
Wagner, Harold O., and Ziskin. 207,109.
Wagner, Harold O., and Ziskin. 207,110.
Wagner, Harold O., and Ziskin. 207,657.
Wagner, Harold O., and Ziskin. 207,658.
Wagner, Harold O., and Ziskin. 208,665.
Zoehfeld, Gunther, to Rotron Mfg. Co., Inc. Air pump. 208,594, 9–12–67, Cl. D65—1.
Zoeller, Richard J., R. L. Walker, and R. A. Fleck, to Aluminum Co. of America. Broiler tray. 209,605, 12–19–67. Cl. D44—1.
Zoeller, Richard J., F. S. Lazure, and R. L. Walker, to Aluminum Co. of America. Portion package of food or beverage. 209,712, 12–26–67, Cl. D58—2.
Zuk, Henry G. Combined bed and drawer unit. 207,391, 4–11–67, Cl. D5—4.
Zuk, Henry G. Foot-board for a bed. 207,392, 4–11–67, Cl. D5—4.

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LIST OF PLANT PATENTEES

Amling-Devor Nurseries, Inc.: *See*—
Lammerts, Walter E. 2,722.
Lammerts, Walter E. 2,751.
Lammerts, Walter E. 2,755.
Lammerts, Walter E. 2,766.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,704, 1–24–67, Cl. 22.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,705, 1–24–67, Cl. 20.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,707, 2–7–67, Cl. 25.

Armstrong, David L., to Armstrong Nurseries, Inc. Nectarine tree. 2,758, 8–8–67, Cl. 41.

Armstrong Nurseries, Inc.: *See*—
Armstrong, David L. 2,704.
Armstrong, David L. 2,705.
Armstrong, David L. 2,707.
Armstrong, David L. 2,758.

Bergeron, Roland, to Gulf Stream Products, Inc. Mock orange (philadelphus) plant. 2,703, 1–24–67, Cl. 54.

Bird, James D.: *See*—
Montgomery, Johnson C., and Bird. 2,738.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,701, 1–24–67, Cl. 4.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,729, 3–21–67, Cl. 15.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,735, 5–2–67, Cl. 82.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,739, 5–16–67, Cl. 79.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,740, 5–16–67, Cl. 81.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,741, 5–16–67, Cl. 81.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,763, 8–29–67, Cl. 26.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,774, 10–24–67, Cl. 11.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,779, 11–28–67, Cl. 11.

Bourne, Benjamin A.: *See*—
Weetman, Leslie M., and Bourne. 2,715.

Brauns, Edward B. Apple tree. 2,750, 7–11–67. Cl. 34.

Byrum, Roy L., to Joseph H. Hill, Co. Rose plant. 2,728, 3–21–67, Cl. 22.

Carlton Rose Nurseries, Inc.: *See*—
Schneeberg, Paul. 2,708.

Cole, David B., to The Cole Nursery Co. Littleleaf linden. 2,712, 2–14–67, Cl. 51.

Cole Nursery Co., The: *See*—
Cole, David B. 2,712.

Conard-Pyle Co., The: *See*—
Jelly, Robert G. 2,746.
Meilland, Marie L. 2,764.
Meilland, Marie L. 2,765.

Darrow, Nance M. and R. J. Mandarin orange plant. 2,714, 2–14–67, Cl. 45.

Darrow, Robin J.: *See*—
Darrow, Nance M. and R. J. 2,714.

Dickson, Patrick, to Jackson & Perkins Co. Rose plant, 2,769, 9–19–67, Cl. 11.

Dunham, Orville O.: *See*—
Miller, Edward H. 2,699.

Ecke, Paul. Poinsettia plant. 2,768, 9–19–67, Cl. 86.

Ecke, Paul. Poinsettia plant. 2,778, 11–14–67, Cl. 86.

Fitzgerald, Elizabeth B. Cattleya orchid plant. 2,777, 11–14–67, Cl. 68.

Flemer, William, Jr., to Treesearch. Ginkgo tree. 2,726, 3–7–67, Cl. 51.

Garabedian, John M., to Peach & Willow Farms. Plum tree. 2,747, 6–13–67, Cl. 38.

Garabedian, John M., to Peach & Willow Farms. Plum tree. 2,783, 12–19–67, Cl. 38.

Gast, Ross H., to Monrovia Nursery Co. Hibiscus plant. 2,760, 8–22–67, Cl. 54.

Gast, Ross H., to Monrovia Nursery Co. Hibiscus plant. 2,761, 8–22–67, Cl. 54.

Gast, Ross H., to Monrovia Nursery Co. Hibiscus plant. 2,762, 8–22–67, Cl. 54.

Gavello, Louis E. Hebe (Veronica) plant. 2,720, 2–21–67, Cl. 54.

Gavello, Louis E. Veronica plant. 2,772, 10–17–67, Cl. 54.

General Bionomics, Inc.: *See*—
Lammerts, Walter E. 2,744.

Great Western Rose Co., Inc.: *See*—
Howard, Arthur P. 2,730.

Gulf Stream Products, Inc.: *See*—
Bergeron, Roland. 2,703.

Hemet Wholesale: *See*—
Lindquist, Robert V. 2,725.

Hervin Farms, Inc.: *See*—
Vinyard, Charles L. 2,713.

Hill, Joseph H., Co.: *See*—
Byrum, Roy L. 2,728.

Howard, Arthur P., to Great Western Rose Co., Inc. Rose plant. 2,730, 4–4–67, Cl. 18.

Hudson, Earl D., to Monrovia Nursery Co. Azalea plant. 2,753, 7–18–67, Cl. 56.

Hudson, Earl D., to Monrovia Nursery Co. Azalea plant. 2,754, 7–18–67, Cl. 56.

Jackson & Perkins Co.: *See*—
Boerner, Eugene S. 2,701.
Boerner, Eugene S. 2,729.
Boerner, Eugene S. 2,735.
Boerner, Eugene S. 2,739.
Boerner, Eugene S. 2,740.
Boerner, Eugene S. 2,741.
Boerner, Eugene S. 2,763.
Boerner, Eugene S. 2,774.
Boerner, Eugene S. 2,779.
Dickson, Patrick. 2,769.
Kordes, Reimer. 2,700.
Kordes, Reimer. 2,734.
Morey, Dennison H., Jr. 2,736.
Morey, Dennison H., Jr. 2,737.
Zombory, William and S. B. 2,780.

Jelly, Robert G., to The Conard-Pyle Co. Rose plant. 2,746, 6–13–67. Cl. 11.

Kamada, Benjamin Y. Pomegranate tree. 2,723, 3–7–67, Cl. 33.

Kern County Land Co.: *See*—
Mugg, Leland O. 2,771.

Kerrigan, Howard. Azalea plant. 2,770, 10–3–67, Cl. 55.

Kim Bros.: *See*—
Maeda, Samuel Y. 2,767.

Kordes, Reimer, to Jackson & Perkins Co. Rose plant. 2,700, 1–24–67, Cl. 28.

Kordes, Reimer, to Jackson & Perkins Co. Rose plant. 2,734, 5–2–67, Cl. 20.

Krause, Walter D. Nectarine tree. 2,775, 11–7–67, Cl. 41.

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Lewis, Hubert B. Azalea plant. 2,781, 12–5–67. Cl. 56.

Lewis, Hubert B. and H. H. Azalea plant. 2,782, 12–5–67, Cl. 57.

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McGredy, Samuel. Rose plant. 2,721, 2–28–67, Cl. 27.
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Mikkelsen, James C. Poinsettia plant. 2,732, 4–4–67, Cl. 86.
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Montgomery, Johnson C., and J. D. Bird. Artichoke plant. 2,738, 5–9–67, Cl. 89.
Moore, Ralph S. Rose plant. 2,717, 2–21–67, Cl. 6.
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Mugg, Leland O., to Kern County Land Co. Almond. 2,771, 10–17–67, Cl. 30.
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LIST OF DISCLAIMERS AND DEDICATIONS

Anderson, Gerald R., Campbell, and Sherman H. Creed, San Jose, Calif. Disclaimer filed Dec. 27, 1966, by the assignee, FMC Corporation. No. 3,199,558; v. 836; p. 1111.

Asplundh, Lester, Bryn Athyn, Pa. Disclaimer filed July 28, 1967, by the assignee, Asplundh Tree Expert Co. No. 3,108,656; v. 843; p. 1566.

Atwood, Rawson, Rumson, and Charles C. L'Allemand, Murray Hill, N.J. Disclaimer filed Mar. 14, 1967, by the assignee, Dyson-Kissner Corporation. No. 3,107,067; v. 839; p. 409.

Atwood, Rawson, Rumson, and Charles C. L'Allemand, Murray Hill, N.J. Disclaimer filed Mar. 14, 1967, by the assignee, Dyson-Kissner Corporation. No. 3,132,817; v. 839; p. 409.

Averill, Eugene F., Waterloo, and Harold E. Straub, Cedar Falls, Iowa. Disclaimer filed Mar. 30, 1967, by the assignee, Titus Manufacturing Corporation. No. 3,242,847; v. 839; p. 410.

Barrett, Francis E., Riverside, Calif. Disclaimer filed Dec. 23, 1966, by the assignee, The Flintkote Company. No. 2,813,751; v. 837; p. 341.

Beebee, Brian Harry, Walsall, England. Disclaimer filed Apr. 17, 1967, by the assignee, The Dunlop Company Limited. No. 3,212,627; v. 839; p. 410.

Bell, John F., Wilmette, Ill. Disclaimer filed Oct. 19, 1966, by the assignee, Zenith Radio Corporation; the inventor assenting. No. 3,196,523; v. 834; p. 829.

Bickford, Warren H., Norwich, Conn. Dedication filed July 12, 1967, by the assignee, Sinclair-Koppers Company. No. 3,082,483; v. 845; p. 2.

Boothe, Willis A., Scotia, N.Y. Disclaimer filed Mar. 13, 1967, by the assignee, General Electric Company. No. 3,260,456; v. 839; p. 1263.

Bowers, Albert, John Edwards, and James C. Orr, Mexico City, Mexico. Disclaimer filed May 11, 1967, by the inventors; the assignee, Syntex Corporation, assenting. No. 3,144,447; v. 841; p. 1412.

Bowers, Albert, and John Edwards, Mexico City, Mexico. Disclaimer filed May 11, 1967, by the inventors; the assignee, Syntex Corporation, assenting. No. 3,144,449; v. 841; p. 1412.

Broughton, Donald B., Evanston, and Charles S. Brearley, Lake Forest, Ill. Disclaimer filed Apr. 3, 1967, by the assignee, Universal Oil Products Company. No. 3,310,486; v. 838; p. 810.

Brueggemann, Harry P., San Marino, Calif. Disclaimer filed June 2, 1967, by the assignee, The Marquardt Corporation. No. 3,306,977; v. 841; p. 1412.

Calhoun, Frederick L., Torrance, Donald D. Williams, Inglewood, and James H. Wyman, Pasadena, Calif. Disclaimer filed Dec. 2, 1966, by the assignee, Geo. J. Meyer Manufacturing Co. No. 3,133,640; v. 836; p. 1111.

Campbell, Robert H., Brookhaven, and William L. Huntington, King of Prussia, Pa. Disclaimer filed July 13, 1967, by the inventors; the assignee, Sun Oil Company, assenting. No. 3,331,677; v. 841; p. 1033.

Campbell, Samuel J., Green Bay, Wis. Disclaimer filed July 28, 1967, by the assignee, FMC Corporation. No. 2,882,662; v. 843; p. 1.

Chadurjian, Frank, Peekskill, N.Y. Disclaimer filed Oct. 13, 1966, by the assignee, International Business Machines Corporation. No. 2,973,508; v. 836; p. 403.

Chidsey, Francis A., Jr., Wayne, and John V. Mahon, Norristown, Pa. Disclaimer filed Nov. 25, 1966, by the assignee, Container Corporation of America. No. 3,081,928; v. 834; p. 1.

Christenson, Roger M., Gibsonia, Samuel Porter, Jr., Tarentum, and Andrew Halcoussis, Pittsburgh, Pa. Disclaimer filed Sept. 29, 1967, by the assignee, Pittsburgh Plate Glass Company. No. 3,290,416; v. 845; p. 2.

Christianson, George, Waterloo, Iowa. Disclaimer filed Oct. 19, 1966, by the assignee, The Rath Packing Company. No. 3,058,830; v. 835; p. 1.

Clinton, Otto M., Los Angeles, Calif. Dedication filed May 22, 1967, by the assignee, General Mills, Inc. No. 2,803,175; v. 841; p. 1412.

Clinton, Otto M., Glendale, Calif. Dedication filed May 26, 1967, by the assignee, General Mills, Inc. No. 2,941,341; v. 841; p. 1412.

Clinton, Otto M., Glendale, Calif. Dedication filed May 26, 1967, by the assignee, General Mills, Inc. No. 2,941,650; v. 841; p. 1412.

Connell, Leo F., Wynnewood, Harold F. Elkin, Bala Cynwyd, and William E. Soden, Swarthmore, Pa. Disclaimer filed Aug. 7, 1967, by the assignee, Sun Oil Company. No. 2,899,385; v. 843; p. 1565.

Crabtree, Kenneth L., Fairfield, Maine. Disclaimer filed Jan. 19, 1967, by the assignee, Keys Fibre Company. No. 3,243,096; v. 838; p. 2.

Crandall, Loid, Alhambra, Calif. Disclaimer filed Dec. 14, 1966, by the assignees, Specmade Products, Inc., and Mary W. Starr. No. 2,990,736; v. 835; p. 1.

Crowe, Talmadge L., Zulia, Venezuela. Disclaimer filed Mar. 24, 1967, by the assignee, Baker Oil Tools, Inc. No. 3,100,537; v. 839; p. 409.

Curry, William E., Playa Del Rey, Calif. Disclaimer filed June 13, 1967, by the assignee, Design Line, Inc. Des. No. 204,900; v. 840; p. 1025.

Deghenghi, Romano, St. Laurent, Quebec, Canada. Disclaimer filed June 7, 1967, by the inventor; the assignee, American Home Products Corporation, assenting. No. 3,210,387; v. 841; p. 1412.

Dickinson, Clayton D., Port Washington, and Sam Friedman, Great Neck, N.Y. Disclaimer filed May 8, 1967, by the assignee, General Telephone & Electronics Laboratories Incorporated. No. 3,243,291; v. 841; p. 1412.

Dodge, Robert J., Houston, Tex. Disclaimer filed Aug. 2, 1967, by the assignee, Automatic Power, Inc. No. 3,214,753; v. 843; p. 1566.

Doyle, Arnold W., Watertown, Robert R. Perron, Beverly, and John R. Swanton, Jr., Newton, Mass. Dedication filed Sept. 22, 1967, by the assignee, American Petroleum Institute. No. 3,155,141; v. 845; p. 2.

Draper, John D., Milwaukee, Wis. Disclaimer filed Apr. 11, 1967, by the assignee, Westinghouse Air Brake Company. No. 3,190,629; v. 838; p. 809.

Dwyer, James J., deceased, by Marion Dwyer, executrix, Clark, N.J. Dedication filed Jan. 11, 1967, by the assignee, Elastic Stop Nut Corporation of America. No. 3,277,942; v. 838; p. 2.

Edwards, Walter Murray, Wilmington, Del. Disclaimer filed Feb. 20, 1967, by the assignee, E. I. du Pont de Nemours and Company. No. 3,179,634; v. 838; p. 809.

Elfving, Thore M., and Sven Thomas Elfving, San Mateo, Calif. Disclaimer filed Sept. 29, 1967, by the assignee, Thore M. Elfving. No. 3,196,620; v. 845; p. 1205.

Esswein, Edward J., Jr., Pittsburgh, Pa. Disclaimer filed Aug. 7, 1967, by the assignee, Mobil Oil Corporation. No. 3,119,712; v. 843; p. 1566.

Etnyre, Samuel R., Oregon, Ill. Dedication filed Sept. 13, 1966, by the assignee, E. D. Etnyre & Co. No. 3,239,148; v. 834; p. 829.

Frayer, Theodore, North Canton, Ohio. Disclaimer filed May 11, 1967, by the inventor; the assignee, The Goodyear Tire & Rubber Company, assenting. No. 3,170,542; v. 841; p. 1412.

Freedman, Robert P., Waterford, Peter J. Barnikel, Quaker Hill, and James H. Torrance, Uncasville, Conn. Disclaimer filed May 5, 1967, by the assignee, General Dynamics Corporation. No. 3,197,986; v. 841; p. 1412.

Gerber, Kenneth George, London, England. Disclaimer filed Jan. 5, 1967, by the inventor; the assignee, The Metal Box Company Limited, assenting. No. 3,151,358; v. 837; p. 667.

Gersten, Gerald B., Brooklyn, N.Y. Disclaimer filed Oct. 24, 1966, by the inventor. No. 2,974,836; v. 835; p. 1.

Golbeck, Bernard J., Crystal Lake, and Raymond F. Lewandowski and Wilhelm A. Streuer, Mount Prospect, Ill. Disclaimer filed Mar. 16, 1967, by the assignee, Oak Electro/Netics Corp. No. 3,261,931; v. 839; p. 410.

Gregg, David Paul, Los Angeles, Calif. Disclaimer filed Mar. 21, 1967, by the assignee, Winston Research Corporation. No. 3,112,360; v. 838; p. 809.

Harlan, George E., Phoenix, Ariz. Disclaimer filed Apr. 6, 1967, by the assignee, Powdered Metals Corporation. No. 3,282,682; v. 840; p. 711.

Harwood, Norman Frederick, Claygate, and Alan John Osborne, Cheam, England. Disclaimer filed July 12, 1967, by the assignee, Baker Perkins, Inc. No. 3,229,558; v. 843; p. 1188.

Hase, Leopold, Brooklyn, N.Y., and Donald F. Othmer, Coudersport, Pa. Disclaimer filed Jan. 20, 1967, by the assignee, Polytechnic Institute of Brooklyn. No. 3,087,404; v. 838; p. 2.

Hechenbleikner, Ingenuin, and Kenneth R. Molt, Cincinnati, Ohio. Disclaimer filed Jan. 6, 1967, by the assignee, Carlisle Chemical Works, Inc. No. 3,096,345; v. 835; p. 396.
Heisler, Jerome S., Eric Glenn, and Anthony J. Starr, Wilmington, Del. Disclaimer filed Mar. 29, 1967, by the assignee, Container Corporation of America. No. 3,262,628; v. 839; p. 410.
Huffman, Mervin C., Denver, Colo. Disclaimer filed Jan. 20, 1967, by the inventor; the assignee, Gardner-Denver Company, assenting. No. 3,082,741; v. 838; p. 809.
Julits, Albert G., Newton, Ohio. Disclaimer filed Jan. 11, 1967, by the assignee, Senco Products, Inc. No. 2,940,081; v. 838; p. 809.
Kamborian, Jacob S., West Newton, Jacob S. Kamborian, Jr., Needham Heights, and Robert B. Field, Brockton, Mass. Disclaimer filed Dec. 16, 1966, by the assignee, Jacob S. Kamborian. No. 3,144,670; v. 837; p. 341.
Kawaguchi, Hiroshi, Masanori Okanishi, and Takeo Miyaki, Tokyo, Japan. Disclaimer filed Oct. 24, 1966, by the assignee, Bristol-Banyu Research Institute, Ltd. No. 3,201,386; v. 834; p. 1221.
Kelly, Joseph L., Jr., Dallas, Tex. Disclaimer filed Feb. 10, 1967, by the assignee, Hughes Tool Company. No. 3,269,470; v. 836; p. 773.
Kirchner, Francois F., Ridgefield, Conn. Disclaimer filed Nov. 16, 1966, by the assignee, Varian Associates. No. 3,023,358; v. 835; p. 395.
Kirchner, Francois F., and Leroy S. Jimerson, Jr., Ridgefield, Conn. Disclaimer filed Nov. 16, 1966, by the assignee, Varian Associates. No. 2,996,658; v. 835; p. 395.
Klemm, Herman G., Largo, Fla., and Donald S. Horne, Robert Ashton, and Leslie L. Kepkay, Toronto, Ontario, Canada. Disclaimer filed Dec. 20, 1966, by the assignee, Massey-Ferguson Limited. No. 3,152,702; v. 836; p. 1111.
Knoll, Florence S., New York, N.Y. Disclaimer filed Apr. 14, 1967, by the assignee, Knoll Associates, Inc. Des. No. 188,900; v. 839; p. 409.
Krafft, William R., Los Angeles, Calif. Disclaimer filed Mar. 3, 1967, by the assignee, Hughes Aircraft Company. No. 3,257,587; v. 839; p. 410.
Lapeyre, Fernand S., and James M. Lapeyre III, New Orleans, and Emile M. Lapeyre, Houma, La. Dedication filed Aug. 30, 1967, by the assignee, The Laitram Corporation. No. 2,778,055; v. 843; p. 1.
Lattanzi, Ernest W., Melrose, Mass. Disclaimer filed July 3, 1967, by the assignee, Sage Laboratories, Inc. No. 3,229,234; v. 842; p. 1217.
Linstedt, William F., Plymouth, Wis. Dedication filed May 22, 1967, by the assignee, General Mills, Inc. No. 2,803,174; v. 841; p. 1412.
Mack, Gerry P., Jackson Heights, and Emery Parker, New York, N.Y. Disclaimer filed Apr. 28, 1967, by the assignee, Carlisle Chemical Works, Inc. No. 2,739,905; v. 840; p. 711.
Macker, John A., Temple City, and Richard C. Simonsen, Pasadena, Calif. Disclaimer filed Apr. 26, 1967, by the inventors and the assignee, Burroughs Corporation. No. 3,229,073; v. 840; p. 711.
McConnell, William Mynard, Pittsburgh, Pa. Disclaimer filed Aug. 29, 1967, by the assignee, Taylor-Wilson Manufacturing Company. No. 3,131,588; v. 843; p. 748.
Meeker, Phillip Dowe, Cincinnati, Ohio. Dedication filed Feb. 9, 1967, by the assignee, The Procter & Gamble Company. Des. No. 206,036; v. 838; p. 809.
Meeker, Phillip Dowe, Cincinnati, Ohio. Dedication filed Feb. 9, 1967, by the assignee, The Procter & Gamble Company. Des. No. 206,140; v. 838; p. 809.
Meese, Clarence E., and Ronald R. Meese, New Philadelphia, Ohio. Disclaimer filed Aug. 3, 1967, by the assignee, Eaton Yale & Towne Inc. No. 3,008,206; v. 842; p. 1.
Melman, George J., and Louis S. Epstein, Wilmington, Del. Disclaimer filed June 26, 1967, by the assignee, Zimmon & Company. No. 2,958,012; v. 841; p. 1412.
Merriman, Wayne R., Midland, Mich. Dedication filed Nov. 15, 1966, by the assignee, The Dow Chemical Company. No. 3,235,324; v. 835; p. 395.
Metcalf, Richard J., Haverton, Pa. Disclaimer and dedication filed May 18, 1967, by the assignee, Gulf Oil Corporation. No. 2,785,120; v. 841; p. 1411.
Metrailer, William Joseph, Baton Rouge, and Wayne Hoover, East Baton Rouge, La. Disclaimer filed Mar. 24, 1967, by the assignee, Esso Research and Engineering Company. No. 3,260,664; v. 839; p. 410.
Meyer, Alfred W., and Arrol G. Roork, Portland, and Eldon R. Deardorff, Milwaukee, Oreg. Disclaimer filed Apr. 28, 1967, by the assignee, Guy F. Atkinson Company. No. 2,902,940; v. 839; p. 1.
Morse, John F., Hudson, Ohio. Disclaimer filed Feb. 13, 1967, by the inventor. No. 3,165,941; v. 838; p. 809.
Morse, Park L., Moraga, Calif. Disclaimer and Dedication filed Nov. 21, 1966, by the assignee, American Gilsonite Company. Re. 25,757; v. 835; p. 395.
Nakaguchi, Kohei, Masaaki Hirooka, and Toshimichi Fujita, Nihama-shi, Japan. Disclaimer filed May 2, 1967, by the assignee, Sumitomo Chemical Company, Limited. No. 3,328,366; v. 843; p. 1566.
Nelson, Herbert, Princeton, N.J. Disclaimer filed May 12, 1967, by the assignee, Radio Corporation of America. No. 2,985,805; v. 841; p. 1412.
Okenfuss, Richard Henry, Cincinnati, Ohio. Dedication filed May 23, 1967, by the assignee, The Procter & Gamble Company. No. 3,178,370; v. 841; p. 1412.
O'Neil, William Marshall, Oak Park, Ill. Disclaimer filed Dec. 12, 1966, by the assignee, Teletype Corporation. No. 3,259,812; v. 836; p. 1111.
Osborne, George T., St. Paul, Minn. Dedication filed Oct. 10, 1966, by the assignee, Sperry Rand Corporation. Re. 26,082; v. 834; p. 1221.
Overment, Alfred P., Chicago, Ill. Dedication filed Sept. 19, 1967, by the inventor. No. 3,108,595; v. 843; p. 748.
Overment, Alfred P. H., Chicago, Ill. Dedication filed Sept. 19, 1967, by the inventor. No. 3,137,387; v. 843; p. 748.
Overment, Alfred P. H., Chicago, Ill. Dedication filed Sept. 19, 1967, by the inventor. No. 3,312,221; v. 843; p. 748.
Page, John A., Minneapolis, Minn. Dedication filed May 22, 1967, by the assignee, General Mills, Inc. No. 3,225,715; v. 841; p. 1412.
Page, John A., Minneapolis, Minn. Dedication filed May 22, 1967, by the assignee, General Mills, Inc. No. 3,225,717; v. 841; p. 1412.
Perron, Robert R., Beverly, Mass. Dedication filed Sept. 22, 1967, by the assignee, American Petroleum Institute. No. 3,214,101; v. 845; p. 3.
Pesch, Anthony W., Daphne, Ala. Disclaimer filed Feb. 14, 1967, by the assignee, International Paper Company. No. 3,085,927; v. 838; p. 809.
Plank, Charles J., Woodbury, and Edward J. Rosinski, Deptford, N. J. Disclaimer filed July 27, 1967, by the assignee, Mobil Oil Corporation. No. 3,271,418; v. 843; p. 1566.
Prahl, Walter H., Buffalo, and Sol Joseph Lederman, and Ellis I. Lichtblau, Kenmore, N.Y. Disclaimer filed Oct. 7, 1965, by the assignee, Hooker Chemical Corporation, No. 3,207,795; v. 837; p. 1.
Pritchard, Dalton H., Princeton, N.J. Disclaimer filed Nov. 1, 1966, by the assignee, Radio Corporation of America. No. 2,830,112; v. 837; p. 667.
Pruitt, Malcolm E., and William A. Rogers, Jr., Lake Jackson, Tex. Dedication filed June 15, 1967, by the assignee, The Dow Chemical Company. No. 2,948,757; v. 840; p. 1025.
Reba, Imants, Chicago, Ill., and Paul W. Cooper, Albuquerque, N. Mex. Dedication filed Sept. 22, 1967, by the assignee, American Petroleum Institute. No. 3,319,692; v. 845; p. 3.
Reisner, Sam, Santa Monica, Calif. Disclaimer filed July 5, 1967, by the assignee, Osco Corporation. No. 3,116,665; v. 843; p. 1566.
Reithel, Raymond F., Rochester, N.Y. Disclaimer filed Feb. 10, 1967, by the assignee, Eastman Kodak Company. No. 3,053,173; v. 838; p. 809.
Riebs, Richard E., Hales Corners, Wis. Disclaimer filed Aug. 2, 1967, by the assignee, McGraw-Edison Company. No. 3,167,686; v. 842; p. 1.
Robinson, Art I. Wichita Falls, Tex., and Garman O. Kimmell, Oklahoma City, Okla. Disclaimer filed Dec. 22, 1966, by the assignee, Bear Manufacturing Corporation. No. 3,031,169; v. 835; p. 395.
Rubin, Richard, Natick, Mass. Disclaimer filed Oct. 27, 1966, by the assignee, Andrew Alford. No. 3,001,053; v. 834; p. 1221.
Russell, David A., Springfield, and Edgar E. Hardy, Longmeadow, Mass. Disclaimer filed Sept. 20, 1967, by the assignee, Monsanto Company. No. 3,262,625; v. 845; p. 2.
Rustad, Stanley C., St. Louis Park, Minn. Dedication filed May 22, 1967, by the assignee, General Mills, Inc. No. 3,037,467; v. 841; p. 1412.
St. Thomas, William H., Gloversville, N.Y. Disclaimer filed Aug. 23, 1967, by the inventor and the assignee, St. Thomas Inc. No. 3,295,645; v. 843; p. 1566.
Scalera, Frank T., Maplewood, N.J. Disclaimer filed Oct. 2, 1967, by the inventor; the assignee, General Electric Company, Inc., assenting. No. 3,189,352; v. 843; p. 1188.
Scholl, Walter, Cologne-Mulheim, and Gerhard Dittmar, Leverkusen, Germany. Disclaimer and dedication filed Aug. 30, 1967, by the assignee, Farbenfabriken Bayer Aktiengesellschaft. No. 3,314,932; v. 843; p. 1.
Schulte, Paul H., Rio Piedras, Puerto Rico. Disclaimer filed Aug. 21, 1967, by the inventor. Des. No. 203,593; v. 843; p. 1565.
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